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<212> Type : DNA  
<211> Length : 2643  
SequenceName : 2814  
SequenceDescription :

Custom Codon

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Sequence Name : 2814

Sequence

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<213> OrganismName : Artificial Sequence  
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KGVGVKKALN YIKTYGDIFR ALKALKVNID HVEEIRNFFL NPPVTDDYRI EFREPDFEKA  
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IEFLCEEHDF SRERVEKALE KLKALKSTQA TLERWFLEEA PWPPPEGAFV GFVLSRPEPM  
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<212> Type : PRT  
<211> Length : 881  
SequenceName : 2815  
SequenceDescription :

Sequence

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<212> Type : DNA
<211> Length : 2619
      SequenceName : 2816
      SequenceDescription :

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#### Custom Codon

Sequence Name : 2816

#### Sequence

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<213> OrganismName : Artificial Sequence
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QAAGRVD EYI VDSAKTLLSY MGIPFVDAPS EG EAQAAYMA AKGDVEYTGS QDYDSL LFGS
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PRLARNLAIT GKRKLPGKNV YVDVKPEIII LESNLKRLGL TREQLIDIAI LVGTDYNEGV
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KGVGVKKALN YIKTYGDIFR ALKALKVNID HVEEIRNFFL NPPVTDDYRI EFREPDFEKA
300
IEFLCEEHDF SRERVEKALE KALKKSTLE EAPWPPPEGA FVG FVLSRPE PMWAE LKALA
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ACRGRVHRA ADPLAGLKDL KEVRGLLAKD LAVLASREGL DLVPGDDPML LAYLLGPSNT
420
TPEGVARRYG GEWTEDAAHR ALLSERLHRN LLKRLEGEEK LLWLYHEVEK PLSRVLAHME
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540
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QTATATGRLS SSDPNLQNIP VRTPLGQRIR RAFVAEAGWA LVALDYSQIE LRVLAHLSGD
660
ENLIRVFQEG KDIHTQTASW MFGVPPEAVD PLMRRAAKTV NFGVLYGMSA HRLSQELAIP
720
YEEAVAFIER YFQSF PKVRA WIEKTLEEGR KRGYVETLFG RRRYVPDLNA RVKSVREAAE
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<212> Type : PRT  
<211> Length : 873  
SequenceName : 2817  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
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 <212> Type : DNA  
 <211> Length : 2445  
 SequenceName : 2818  
 SequenceDescription :

#### Custom Codon

Sequence Name : 2818

#### Sequence

<213> OrganismName : Artificial Sequence  
 <400> PreSequenceString :  
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 180  
 YRALTGDESD NLPGVKGIGE KTARKLLEEW GSLEALLKNL DRLKPAIREK ILAHMDDLKL  
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 SWDLAKVRTD LPLEVDFAKR REPDRGEKP REEAPWPPPE GAFVGFLLSR PEPMWAEKLA  
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 LAACRGGRVH RAADPLAGLK DLKEVRGLLA KDLAVALASRE GLDLVPGDDP MLLAYLLGPS  
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 660  
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 AERMAFNMPV QGTAADLMKL AMVKLFPRLR EMGARMLLQV ANELLLEAPQ ARAEEVAALA  
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<212> Type : PRT

<211> Length : 815

SequenceName : 2819

SequenceDescription :

# Sequence

<213> OrganismName : Artificial Sequence

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<212> Type : DNA
<211> Length : 2520
      SequenceName : 2820
      SequenceDescription :

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Custom Codon

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Sequence Name : 2820

Sequence

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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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 2340  
 aaggaggcca tggagaaggc ctatcccctc gccgtgcccc tggaggtgga ggtggggatg  
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 2445

<212> Type : DNA

<211> Length : 2445

SequenceName : 2822

SequenceDescription :

Custom Codon

Sequence Name : 2822

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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120  
LATLAKKAEK EGYEVRLTA DKDLYQLLSL RIHVLHPEGY LITPAWLWEK YGLRPDQWAD  
180  
YRALTGDESD NLPGVKGIGE KTARKLLEEW GSLEALLKNL DRLKPAIREK ILAHMDDLKL  
240  
SWDLAKVRTD LPLEVDFAKR REPDREGEKP REEAPWPPPE GAFVGFLLSR PEPMWAELKA  
300  
LAACRGGRVH RAADPLAGLK DLKEVRGLLA KDLAVLASRE GLDLVPGDDP MLLAYLLGPS  
360  
NTTPEGVARR YGGEWTEAHRALLSERLH RNLLKRLEGE EKLLWLYHEV EKPLSRVLAH  
420  
MEATGVRLDV AYLQALSLEL AEEIRRLEEE VFRLAGHPFN LNSRDQLERV LFDELRLPAL  
480  
KKTGKTGKRS TSAAVLEALR EAHPIVEKIL QHRELTKLKN TYVDPLPSLV HPRTGRLHTR  
540  
FNQTATATGR LSSSDPNLQN IPVRTPLGQR IRRAFVAEAG WALVALDYSQ IELRVLAHLS  
600  
GDENLIRVFQ EGKDIHTQTA SWMFGVPPEA VDPLMRRAAK TVNFGVLYGM SAHRLSQELA  
660  
IPYEEAVAFI ERYFQSFQKV RAWIEKTLLE GRKRGYVETL FGRRRYVPDL NARVKSUREA  
720  
AERMAFNMPV QGTAADLMKL AMVKLFPRLR EMGARMMLQV ANELLLEAPQ ARAEEVAALA  
780  
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815  
<212> Type : PRT  
<211> Length : 815  
SequenceName : 2823  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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480  
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2460  
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2520

<212> Type : DNA  
<211> Length : 2520  
SequenceName : 2824  
SequenceDescription :

Custom Codon

Sequence Name : 2824

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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120  
DDVLGTLAKK AEKEGYEVRI LTADRDLYQL VSDRIHVLHP EGYLITPEWL WEKYGLKPSQ  
180  
WVDYRALAGD PSDNIPGVKG IGEKTAAKLI REWGSLENLL KNLDRLKPAI REKILAHMDD  
240  
LKLSWDLAKV RTDLPLEVDF AKRREPDRER LRAFLERLEF GSLLHEFGLL ESPKALEEAP  
300  
WPPPEGAFVG FVLSRPEPMW AELKALAACR GGRVHRAADP LAGLKDLKEV RGLLAKDLAV  
360  
LASREGLDLV PGDDPMLLAY LLGPSNTTPE GVARRYGGEW TEDAAHRALL SERLHRNLLK  
420  
RLEGEEKLLW LYHEVEKPLS RVLAHMEATG VRLDVAYLQA LSLELAEER RLEEEVFRLA  
480  
GHPFNLSRD QLERVLFDEL RLPALKKTKK TGKRSTSAAV LEALREAHPI VEKILQHREL  
540  
TKLKNTYVDP LPSLVHPTG RLHTRFNQTA TATGRLSSSD PNLQNIPIRT PLGQIRIRAF  
600  
VAEAGWALVA LDYSQIELRV LAHLSGDENL IRVFQEGKDI HTQTASWMFG VPPEAVDPLM  
660  
RRAAKTVNFG VLYGMSAHLR SQELAIPYEE AVAFIERYFQ SFPKVRAWIE KTLLEGRKRG  
720  
YVETLFGRRR YVPDLNARVK SVREAAERMA FNMPVQGTAA DLMKLAMVKL FPRLEMGAR  
780  
MLLQVANELL LEAPQARAEE VAALAKEAME KAYPLAVPLE VEVGMGEDWL SAKGHHHHHH  
840

<212> Type : PRT  
<211> Length : 840  
SequenceName : 2825  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
atgaattccc tgcccctctt tgagcccaag ggccgggtgc ttctggtgga cgccaccac



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1980  
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aaggaggcca tggagaaggc ctatccccct gccgtgcccc tggaggtgga ggtggggatg  
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2445

<212> Type : DNA

<211> Length : 2445

SequenceName : 2826

SequenceDescription :

Custom Codon

Sequence Name : 2826

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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120  
LATLAKKAEK EGYEVRILTA DKDLYQLLSD RIHVLHPEGY LITPAWLWEK YGLRPDQWAD  
180  
YRALTGDESD NLPGVKGIGE KTARKLLEEW GSLEALLKNL DRLKPAIREK ILAHMDDLKL  
240  
SWDLAKVRTD LPLEVDFAKR REPDREGEKP REEAPWPPPE GAFVGFLLSR PEPMAELKA  
300  
LAACRGGRVH RAADPLAGLK DLKEVRGLLA KDHLAVLASRE GLDLVPGDDP MLLAYLLGPS  
360  
NTTPEGVARR YGGEWTEA AEEIRRLEEE VFRLAGHPFN LNSRDQLERV LFDELRLPAL  
420  
MEATGVRLDV AYLQALSLEL AEEIRRLEEE VFRLAGHPFN LNSRDQLERV LFDELRLPAL  
480  
KKTKKTKGRS TSAAVLEALR EAHPIVEKIL QHRELTKLKN TYVDPLPSLV HPRTGRLHTR  
540  
FNQTATATGR LSSSDPNLQN IPVRTPLGQR IRRAFVAEAG WALVALDYSQ IELRVLAHLS  
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GDENLIRVFQ EGKDIHTQTA SWMFGVPPEA VDPLMRRAAK TVNFGVLYGM SAHRLSQELA  
660  
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780  
KEAMEKAYPL AVPLEVEVGM GEDWLSAKGH HHHHH  
815

<212> Type : PRT  
<211> Length : 815  
SequenceName : 2827  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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ctggcctacc gtaccttttt tgccctgaag ggcctcacca ccagccgcgg ggagccggtc  
120  
caggcggtgt acgggtttgc caagagcctt ttgaaggcgc taagggaaga cggggatgtg  
180  
gtgatcgtgg tctttgacgc cgaggccccc tccttcgcc accagacctt cgaggcctac  
240  
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1560

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2445

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<212> Type : DNA

<211> Length : 2445

SequenceName : 2828

SequenceDescription :

Custom Codon

Sequence Name : 2828

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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120
LATLAKKA EK EGYEVRI LTA DKDLYQL LSD RIHVLHPEG Y LITPAWLWEK YGLRPDQWAD
180
YRALTGDESD NLPGVKGIGE KTARKLLEEW GSLEALLKNL DRLKPAIREK ILAHMDDLKL
240
SWDLAKVRTD LPLEVDFAKR REPDREGEKP REEAPWPPPE GAFVGFLLSR PEPMWAE LKA
300
LAACRGGRVH RAADPLAGLK DLKEVRGLLA KD L AVLASRE GLDLVP GDDP MLLAYLLGPS
360
NTTPEGVARR YGGEWTE DAA HRALLSERLH RNLLKRLEGE EKLLWLYHEV EKPLSRVLAH
420
MEATGVRLDV AYLQALSLEL AEEIRRL EEE VFRLAGHPFN LNSRDQLERV LFDELRLPAL
480
KKT KKTGKRS TSAAVLEALR EAHPIVEKIL QHRELTKLKN TYVDPLPSLV HPRTGRLHTR
540

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600  
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660  
IPYEEAVAFI ERYFQSFPKV RAWIEKTL EE GRKRGYVETL FGRRRYVPDL NARVKS VREA  
720  
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815  
<212> Type : PRT  
<211> Length : 815  
SequenceName : 2829  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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60  
ggccaccacc tggcctaccg tacctttttt gccctgaagg gcctcaccac cagccggggg  
120  
gagccggtcc aggcggtgta cgggtttgcc aagagccttt tgaaggcgct aagagaagac  
180  
ggggacgcgg tgatcgtggt ctttgacgcc gagggcccct ccttccgcca cgaggcctac  
240  
gggggggtaca aggcggggcg ggctcccacc cccgaggact ttccccggca gcttgccctt  
300  
atcaaggagc tgggtggacct cctgggggttt acccgccctcg aggtcccccg ctacgaggcg  
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420  
ctcaccgccg acaaagacct ttaccagctc ctttccgacc gcatccacgt cctccacccc  
480  
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540  
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720  
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1020  
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1080  
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1140  
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1200  
acggaggacg ccgcccaccg ggccctcctc tcggagaggc tccatcgga cctccttaag  
1260

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cgctcgagg gggaggagaa gtccttttgg ctctaccacg aggtggaaaa gcccctctcc
1320
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1680
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1800
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2160
tacgtggaag ccctcttcgg aagaaggcgc tacgtgcccg acctcaacgc ccgggtgaag
2220
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2280
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2340
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2400
gtggcggctt tggccaagga ggccatggag aaggcctatc ccctcgccgt gcccctggag
2460
gtggaggtgg ggatggggga ggactggctt tccgccaagg gtcaccacca ccaccaccac
2520

```

```

<212> Type : DNA
<211> Length : 2520
      SequenceName : 2830
      SequenceDescription :

```

Custom Codon

-----  
Sequence Name : 2830

Sequence

```

-----
<213> OrganismName : Artificial Sequence
<400> PreSequenceString :
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60
GDAIVVFDFA EAPSRHEAY GGYKAGRAPT PEDFPRQLAL IKELVDLLGF TRLEVPGYEA
120
DDVLATLAKK AEKEGYEVRI LTADKDLYQL LSDRIHVLHP EGYLITPAWL WEKYGLRPDQ

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180  
WADYRALTGD ESDNLPGVKG IGEKTALKLL KEWGSLEALL KNLDRLKPAI REKILAHMDD  
240  
LKLSWDLAKV RTDLPLEVDF AKRREPDREG LKAFLELLEF GSLLHEFGLL GGEKPREEAP  
300  
WPPPEGAFVG FVLSRKEPMW ADLLALAACR GGRVHRAADP LAGLKDLEKEV RGLLAKDLAV  
360  
LASREGLDLV PGDDPMLLAY LLGPSNTTPE GVARRYGGEW TEDAAHRALL SERLHRNLLK  
420  
RLEGEKLLW LYHEVEKPLS RVLAHMEATG VRLDVAYLQA LSLELAEEIR RLEEEVFRLA  
480  
GHPFNLNSRD QLERVLFDEL RLPALKKTKK TGKRSTSAAV LEALREAHPI VEKILQHREL  
540  
TKLKNTYVDP LPSLVHPRTG RLHTRFNQTA TATGRLSSSD PNLQNIPVRT PLGQRIRRAF  
600  
VAEAGWALVA LDYSQIELRV LAHLSGDENL IRVFQEGKDI HTQTASWMFG VPPEAVDPLM  
660  
RRAAKTVNFG VLYGMSAHLR SQELAIPYEE AVAFIERYFQ SFPKVRWIE KTLEEGRKRG  
720  
YVETLFGRRR YVPDLNARVK SVREAAERMA FNMPVQGTAA DLMKLMVKL FPRLEMGAR  
780  
MLLQVANELL LEAPQARAE VAALAKEAME KAYPLAVPLE VEVGMGEDWL SAKGHHHHHH  
840

<212> Type : PRT  
<211> Length : 840  
SequenceName : 2831  
SequenceDescription :

#### Sequence

-----  
<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
atgaattcgg ggatgctgcc cctctttgag cccaagggcc ggggtgcttct ggtggacggc  
60  
caccacctgg cctaccgcac cttcttcgcc ctgaagggcc tcaccaccag ccgcggggag  
120  
ccggtgcaga tgggtctacg cttcgcccg agcctcctca aggccttgaa ggaggacgga  
180  
caggcgggtg tcgtggtctt tgacgccaa gccccctcct tccgccacga ggcctacgag  
240  
gcctacaagg cgggcccggc cccaccccc gaggacttcc cccggcagct cgcccttatc  
300  
aaggagatgg tggacctttt gggcctggcg cgctcgagg tcccgggcta cgaggcggac  
360  
gacgttctcg ccacctggc caagaaggcg gaaaaggagg ggtacgaggt gcgcctcctc  
420  
accgccgacc gcgacctcta ccaactcgtc tccgaccg cgccgtcct ccccccag  
480  
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540  
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600  
ggggagaaga cggcggccaa gctgatccgg gagtggggaa gcctggaaaa ctttcttaag  
660  
cacctggaac aggtgaaacc tgcctccgtg cgggagaaga tccttagcca catggaggac  
720  
ctcaagctat ccctggagct atcccgggtg cacacggact tgctccttca ggtggacttt  
780  
aaggccctgc gccgcaggac ccccgacctg gagggcctga gggccttttt ggaggagctg  
840

```

gagttcggca gcctcctcca cgagttcggc ctcttgagg ccccgccgc ggcggaggaa
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gtccctggc cgcccccgga gggagccttc gtggggtacg ttctttcccg ccccgagccc
960
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1380
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1560
gcggtgctgg aggccctacg ggaggccac cccatcgtgg agaagatcct ccagcaccgg
1620
gagctcacca agctcaagaa cacctacgtg gacccctcc caagcctcgt ccacccgagg
1680
acgggcccgc tccacaccgc cttcaaccag acggccacgg ccacggggag gcttagtagc
1740
tccgacccca acctgcagaa catccccgtc cgcacccctc tgggcccagag gatccgcccg
1800
gccttcgtgg ccgaggcggg ttgggcttg gtggccctgg actatagcca gatagagctc
1860
cgcgtcctcg ccacctctc cggggacgaa aacctgatca gggctttcca ggagggaag
1920
gacatccaca cccagaccgc aagctggatg ttcgcgctcc ccccgaggc cgtggacccc
1980
ctgatgcgcc gggcgccaa gacggtgaac ttcggcgctc tctacggcat gtccgcccat
2040
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2100
ttccaaagct tcccaagggt gcgggcctgg atagaaaaga ccctggagga ggggaggaag
2160
cggggctacg tggaaaccct cttcggaaga aggcgctacg tgcccaccc caacgcccgg
2220
gtgaagagcg tcaggaggc cgcgagcgc atggccttca acatgcccgt ccagggcacc
2280
gccgccgacc tcatgaagct cgccatggtg aagctcttcc cccgctccg ggagatgggg
2340
gccgcatgc tcctccaggt cgccaacgag ctctcctcgg agggcccca agcgcgggcc
2400
gaggaggtgg cggttttggc caaggaggcc atggagaagg cctatccctc cgccgtgccc
2460
ctggaggtgg aggtggggat gggggaggac tggctttccg ccaagggtca ccaccaccac
2520
caccac
2526

```

<212> Type : DNA

<211> Length : 2526

SequenceName : 2832



SequenceDescription :

Custom Codon

Sequence Name : 2832

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSGMLPLFE PKGRVLLVDG HHLAYRTFFA LKGLTTSRGE PVQMVYGFAR SLLKALKEDG  
60  
QAVVVVFDK APSFRHEAYE AYKAGRPTP EDFPRQLALI KEMVDLLGLA RLEVPGYEAD  
120  
DVLATLAKKA EKEGYEVRI L TADRDLVQLV SDRVAVLHPE GHLITPEWLW EKYGLRPEQW  
180  
VDFRALVGDV SDNLPVKGKI GEKTAAKLIR EWGSLNLLK HLEQVKPASV REKILSHMED  
240  
LKLSLELSRV HTDLLLQVDF KALRRRTPD L EGLRAFLEEL EFGSLLHEFG LLEAPAAAE  
300  
APWPPPEGAF VGYVLSRPEP MWAE LNALAA AWGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDPM L AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGEELK LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLS RDQLERVLFD ELRLPALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNI PV RTPLGQRIR  
600  
AFVAEAGWAL VALDYSQIEL RVL A H LSGDE NLIRVFQEGK DIHTQTASWM FGVPPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAI PY EEAVAFIERY FQSFPKVRW IEKTL EEGRK  
720  
RGYVETLFG RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPR LREM  
780  
ARMLLQVANE LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
840  
HH  
842  
<212> Type : PRT  
<211> Length : 842  
SequenceName : 2833  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
atggaattcc tgccctctt tgagcccaag ggccgggtgc ttctggtgga cggccaccac  
60  
ctggcctacc gcaccttcca cgccctgaag ggccctacca ccagccgcgg ggagccggtc  
120  
caggcgggtgt acgggtttgc caagagcctt ttgaaggcgc taagagaaga cggggatgtg  
180  
gtgatcggtg tctttgacgc caagggcccc tccttcgcc acgaggccta cgggggggtac  
240  
aaggcgggccc gggccccgac ccccgaggac ttccccggc agctcgccct catcaaggag  
300  
ctgggtggacc tcctgggggt ggcgcgcctc gaggtgccgg gctttgaagc ggatgacgtc  
360



2220  
gaggccgagg agcgcatggc cttcaacatg cccgtccagg gcaccgccgc cgacctcatg  
2280  
aagctcgcca tgggtgaagct cttccccgc ctccgggaga tgggggccc catgctcctc  
2340  
caggtcgcca acgagctcct cctggaggcc cccaagcgc gggccgagga ggtggcggct  
2400  
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2460  
gggatggggg aggactggct ttccgccaag ggtcaccacc accaccacca c  
2511

<212> Type : DNA  
<211> Length : 2511  
SequenceName : 2834  
SequenceDescription :

Custom Codon

Sequence Name : 2834

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MEFLPLFEPK GRVLLVDGHH LAYRTFHALK GLTTSRGEPV QAVYGFAKSL LKALREDGDV  
60  
VIVVFDKAP SFRHEAYGGY KAGRPTPED FPRQLALIKE LVDLLGLARL EVPGFEDDV  
120  
LATLAKKAEK EGYEVRIITG DRDLYQLVSD RVAVLHPEGH LITPEWLWEK YGLRPEQWVD  
180  
YRALAGDPSD NIPGVKGIGE KTARKLLEEW GSVEALLKNL DRLKPAIREK ILAHMEDLKL  
240  
SLELSRVRTD LPLEVDLAQG REPDREGLKA FLERLEFGSL LHEFGLLESP VAAEEAPWPP  
300  
PEGAFTGVYL SRPEPMWAEI NALAAAWGGR VHRAADPLAG LKDLKEVRGL LAKDLAVLAS  
360  
REGLDLVPGD DPMLLAYLLG PSNTTPEGVA RRYGGEWTEA AHRALLSER LHRNLLKRLE  
420  
GEEKLLWLYH EVEKPLSRVL AHMEATGVRL DVAYLQALSL ELAEEIRRLE EEVFRLAGHP  
480  
FNLNSRDQLE RVLFDLRLP ALKKTCKTKG RSTSAVLEA LREAHPIVEK ILQHRELTKL  
540  
KNTYVDPLPS LVHPRTGRLH TRFNQTATAT GRLSSSDPNL QNIPVRTPLG QRIRRAFVAE  
600  
AGWALVALDY SQIELRVLAH LSGDENLIRV FQEGKDIHTQ TASWMFGVPP EAVDPLMRRR  
660  
AKTVNFGVLY GMSAHRLSQE LAIPYEEAVA FIERYFQSFP KVRWIEKTL EEGRKRGYVE  
720  
TLFGRRRYVP DLNARVKSVR EAAERMAFNM PVQGTADLM KLAMVKLFPR LREMGARMLL  
780  
QVANELLLEA PQARAEVAA LAKEAMEKAY PLAVPLEVEV GMGEDWLSAK GHHHHHH  
837

<212> Type : PRT  
<211> Length : 837  
SequenceName : 2835  
SequenceDescription :

Sequence





720  
TLFGRRRYVP DLNARVKSVR EAAERMAFNM PVQGTADLM KLAMVKLFPR LREMGARMLL  
780  
QVANELLLEA PQARAEVAA LAKEAMEKAY PLAVPLEVEV GMGEDWLSAK G  
831

<212> Type : PRT  
<211> Length : 831  
SequenceName : 2837  
SequenceDescription :

Sequence

-----  
<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
atgaattccg aggcgatgct tccgctcttt gaacccaaag gccgggtcct cctggtggac  
60  
ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
120  
gaaccggtgc aggcggtcta cggtctcgcc aagagcctcc tcaaggccct gaaggaggac  
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300  
ctcatcaagg agctggtgga cctcctgggg ttaccgcgc tcgaggtccc cggctacgag  
360  
gcggacgacg ttctcgccac cctggccaag aaggcggaag aggaggggta cgaggtgcgc  
420  
atcctcaccg ccgaccgca cctctacca ctctctccg accgcgtcgc cgtcctccac  
480  
cccaggggcc acctcatcac cccggagtgg ctttgggaga agtacggcct caggccggag  
540  
cagtgggtgg acttccgcgc cctcgtgggg gaccctccg acaacctccc cggggtcaag  
600  
ggcatcgggg agaagaccgc cctcaagctc ctcaaggagt ggggaagcct ggaaaacctc  
660  
ctcaagaacc tggaccgggt aaagccagaa aacgtccggg agaagatcaa ggcccacctg  
720  
gaagacctca ggctctctt ggagctctcc cgggtgcgca ccgacctccc cctggagggtg  
780  
gacctcgccc aggggcggga gcccgaccgg gaggggctta gggccttcct ggagaggctg  
840  
gagttcgga gcctctcca cgagttcggc ctctggagg ccccgcccc cctggaggag  
900  
gccccctggc ccccgccgga aggggccttc gtgggcttcg tcctctccg ccccgagccc  
960  
atgtgggcgg agcttaaagc cctggccgcc tgcaggggag gccgcgtgca ccgggcagca  
1020  
gacccttg cggggctaaa ggacctcaag gaggtccggg gcctcctcgc caaggacctc  
1080  
gccgtcttg cctcgaggga ggggctagac ctctgcccc gggacgacct catgctctc  
1140  
gcctacctc tggaccttc gaaccacc cccgaggggg tggcgcgcg ctacgggggg  
1200  
gagtggacgg aggacgccgc ccaccgggcc ctctctcgg agaggctcca tcggaacctc  
1260  
cttaagcgcc tcgaggggga ggagaagctc ctttggctct accacgaggt ggaaaagccc  
1320  
ctctcccggt tcctggccca catggaggcc accggggtac ggctggacgt ggacctct  
1380

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caggcccttt ccctggagct tgcggaggag atccgccgcc tcgaggagga ggtcttccgc  
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 ttggcgggcc accccttcaa cctcaactcc cgggaccagc tggaaagggg gctctttgac  
 1500  
 gagcttaggc ttcccgcctt gaagaagacg aagaagacag gcaagcgctc caccagcgcc  
 1560  
 gcggtgctgg aggccctacg ggaggccac cccatcgtgg agaagatcct ccagcaccgg  
 1620  
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 1680  
 acgggccgcc tccacaccgc cttcaaccag acggccacgg ccacggggag gcttagtagc  
 1740  
 tccgaccca acctgcagaa catccccgtc cgcacccctc tgggccagag gatccgccgg  
 1800  
 gccttcgtgg ccgaggcggg ttgggcgttg gtggccctgg actatagcca gatagagctc  
 1860  
 cgcgtcctcg cccacctctc cggggacgaa aacctgatca gggctctcca ggaggggaag  
 1920  
 gacatccaca cccagaccgc aagctggatg ttcggcgctc ccccgagggc cgtggacccc  
 1980  
 ctgatgcgcc gggcgcccaa gacgggtgaac ttcggcgctc tctacggcat gtccgcccat  
 2040  
 aggctctccc aggagcttgc catcccctac gaggaggcgg tggcctttat agagcgctac  
 2100  
 ttccaaagct tccccaaggt gcgggccttg atagaaaaga ccctggagga ggggaggaag  
 2160  
 cggggctacg tggaaaccct cttcggaaga aggcgctacg tgcccgaact caacgcccgg  
 2220  
 gtgaagagcg tcagggaggg cgcggagcgc atggccttca acatgcccgt ccagggcacc  
 2280  
 gccgccgacc tcatgaagct cgccatggtg aagctcttcc cccgcctccg ggagatgggg  
 2340  
 gcccgcatgc tcctccaggt cgccaacgag ctctctctgg agggccccca agcgcggggc  
 2400  
 gaggaggtgg cggctttggc caaggaggcc atggagaagg cctatcccct cgccgtgccc  
 2460  
 ctggaggtgg aggtggggat gggggaggac tggctttccg ccaaggggtca ccaccaccac  
 2520  
 caccac  
 2526

<212> Type : DNA

<211> Length : 2526

SequenceName : 2838

SequenceDescription :

Custom Codon

-----  
Sequence Name : 2838

Sequence

-----  
<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

MNSEAMLPLF EPKGRVLLVD GHHLAYRTFF ALKGLTTSRG EPVQAVYGFA KSLKALKED  
 60  
 GYKAVFVVD AKAPSRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
 120  
 ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRAVLH PEGHLITPEW LWEKYGLRPE  
 180  
 QWVDFRALVG DPSDNLPGVK GIGKLTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
 240

EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
 300  
 APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
 360  
 AVLASREGLD LVPGDDPMLL AYLLDPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
 420  
 LKRLEGEKEL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
 480  
 LAGHPFNLNS RDQLERVLFD ELRLPALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
 540  
 ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNIPV RTPLGQRIRR  
 600  
 AFVAEAGWAL VALDYSQIEL RVLAHLSGDE NLIRVFQEGK DIHTQTASWM FGVPPPEAVDP  
 660  
 LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFPKVRW IEKTLEEGRK  
 720  
 RGYVETLFR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLMV KLFPRLREMG  
 780  
 ARMLLQVANE LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
 840  
 HH  
 842

<212> Type : PRT

<211> Length : 842

SequenceName : 2839

SequenceDescription :

#### Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

atgaattccg aggcgatgct tccgctcttt gaacccaaag gccgggtcct cctggtggac  
 60  
 gccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
 120  
 gaaccggtgc aggcggtcta cggtctcgcc aagagcctcc tcaaggccct gaaggaggac  
 180  
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caccac
2526
<212> Type : DNA
<211> Length : 2526
SequenceName : 2840
SequenceDescription :

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Custom Codon

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Sequence Name : 2840

Sequence

-----

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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GYKAVFVVD AKAPSRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAEKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDPMMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGEEKL LWLYHEVEKP LSRVLAHMEA TGVRRDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLNS RDQLERVLF D ELRLPALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNPV RTPLGQRIRR  
600  
AFVAEAGWAL VALDYSQIEL RVL AHL SGDE NLIRVFQEGK DIHTQTASWM FGVPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIER Y FQSF PKVRAW IEKTLEEGRK  
720  
RGYVETLFGR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLMV KLFPR LREM G  
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ARMLLQVANE LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
840  
HH  
842

<212> Type : PRT

<211> Length : 842

SequenceName : 2841

SequenceDescription :

Sequence

-----

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
120  
gaaccggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggcct gaaggaggac  
180  
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360  
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420

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2280  
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ctggaggtgg aggtggggat gggggaggac tggctttccg ccaaggtca ccaccaccac  
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caccac  
2526  
<212> Type : DNA  
<211> Length : 2526  
SequenceName : 2842  
SequenceDescription :

Custom Codon

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Sequence Name : 2842

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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GYKAVFVVD AKAPSRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAEKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDDPMLL AYLLDPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGEELK LWLYHEVEKP LSRVLAHMEA TGVRRDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLNS RDQLERVLFD ELRLPALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNIPV RTPLGQRIIR  
600  
AFVAEAGWAL VALDYSQIEL RVLAHLSGDE NLIRVFQEGK DIHTQTASWM FGVPPPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFPKVRW IEKTLEEGRK  
720  
RGYVETLFGF RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPRLREMG  
780  
ARMLLQVANE LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
840  
HH  
842  
<212> Type : PRT  
<211> Length : 842  
SequenceName : 2843  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence
<400> PreSequenceString :
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ggccaccacc tggcctaccg caccgccttc gccctgaagg gcctcaccac gagccggggc
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gaaccgggtgc aggcgggtcta cggcttcgcc aagagcctcc tcaaggccct gaaggaggac
180
gggtacaagg ccgtcttcgt ggtctttgac gcccaaggccc cctccttcg ccacgaggcc
240
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2526  
<212> Type : DNA  
<211> Length : 2526  
SequenceName : 2844  
SequenceDescription :

Custom Codon

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Sequence Name : 2844

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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GYKAVFVVD AKAPSRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDPMMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGEELK LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLS RDQLERVLFD ELRLPALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNPV RTPLGQRIR  
600  
AFVAEAGWAL VALDYSQIEL RVLHLGSGDE NLIRVFQEGK DIHTQTASWM FGVPPEAVDP

660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFPKVRW IEKTLEEGRK  
720  
RGYVETLFGR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLMV KLFPRRLREMG  
780  
ARMLLQVANE LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
840  
HH  
842  
<212> Type : PRT  
<211> Length : 842  
SequenceName : 2845  
SequenceDescription :

# Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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ggccaccacc tggcctaccg caccgcgac gccctgaagg gcctcaccac gagccggggc  
120  
gaaccggtgc aggcggtcta cggtctcgcc aagagcctcc tcaaggccct gaaggaggac  
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 1920  
 gacatccaca cccagaccgc aagctggatg ttcggcgctc ccccgagggc cgtggacccc  
 1980  
 ctgatcgccc gggcgccaa gacggtgaac ttcggcgctc tctacggcat gtccgcccac  
 2040  
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 2100  
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 2160  
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 2280  
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 2400  
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 2460  
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 2520  
 caccac  
 2526

<212> Type : DNA

<211> Length : 2526

SequenceName : 2846

SequenceDescription :

Custom Codon

Sequence Name : 2846

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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GYKAVFVVD AKAPSFRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
 120

ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE



180  
 QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
 240  
 EDLRLSLELS RVRTDLPLEV DLAQGREGPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
 300  
 APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
 360  
 AVLASREGLD LVPGDPMMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
 420  
 LKRLEGEEEKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
 480  
 LAGHPFNLS RDQLERVLFED ELRLPALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
 540  
 ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNIPIV RTPLGQRIRR  
 600  
 AFVAEAGWAL VALDYSQIEL RVLAHLSGDE NLIRVFQEGK DIHTQTASWM FGVPPPEAVDP  
 660  
 LMRRAAKTVN FGVLYGMSAH RLSQELAIPY BEAVAFIERY FQSF PKVRAW IEKTL EEGRK  
 720  
 RGYVETLFRG RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPRRLREMG  
 780  
 ARMLLQVANE LLEAPQARA BEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
 840  
 HH  
 842  
 <212> Type : PRT  
 <211> Length : 842  
 SequenceName : 2847  
 SequenceDescription :

# Sequence

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 <213> OrganismName : Artificial Sequence  
 <400> PreSequenceString :  
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 60  
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 cagtgggtgg acttccgcgc cctcgtgggg gaccctccg acaacctccc cggggtcaag  
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 720  
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 780  
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 1860  
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 1920  
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 1980  
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 gaggaggtgg cggctttggc caaggaggcc atggagaagg cctatcccct cgccgtgccc  
 2460  
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 2520  
 caccac  
 2526  
 <212> Type : DNA  
 <211> Length : 2526

SequenceName : 2848  
SequenceDescription :

Custom Codon

Sequence Name : 2848

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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GYKAVFVVD AKAPSF RHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDPMML AYLLGPSNTT PEGVARRYGG EWTEAAHRA LLSERLHRNL  
420  
LKRLEGEELK LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLS RDQLERVLFD ELRLPALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNIPV RTPLGQRIRR  
600  
AFVAEAGWAL VALDYSQIEL RVL AHL SGDE NLIRVFQEGK DIHTQTASWM FGVPPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIER Y FQSFPKVRW IEKTLEEGRK  
720  
RGYVETLFR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPR LREM G  
780  
ARMLLQVANE LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
840  
HH  
842  
<212> Type : PRT  
<211> Length : 842  
SequenceName : 2849  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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ctggcctacc gcacccgctt cgccctgaag ggccctacca ccagccgcgg ggagccggtc  
120  
caggcgggtg acgggtttgc caagagcctt ttgaaggcgc taagggaaga cggggatgtg  
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240  
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360  
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 420  
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2400  
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2514

<212> Type : DNA  
<211> Length : 2514  
SequenceName : 2850  
SequenceDescription :

Custom Codon

Sequence Name : 2850

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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VIVVFDAKAP SFRHQTYEAY KAGRPTPED FPRQLALIKE MVDLLGLERL EVPGFADDV  
120  
LATLAKKAEK EGYEVRIITA DRDLYQLLSE RISILHPEGY LITPEWLWEK YGLKPSQWVD  
180  
YRALAGDPSD NIPGVKGIGE KTAAKLIREW GSLENLLKHL EQVKPASVRE KILSHMEDLK  
240  
LSLELSRVHT DLLLQVDFAR RREPDRGLK AFLERLEFGS LLHEFGLLES PVAAEEAPWP  
300  
PPEGAFVGIV LSRPEPMWAE LNALAAWGG RVHRAADPLA GLKDLKEVRG LLAKDLAVLA  
360  
SREGLDLVPG DDPMLLAYLL GPSNTTPEGV ARRYGGEWTE DAAHRALLSE RLHRNLLKRL  
420  
EGEEKLLWLY HEVEKPLSRV LAHMEATGVR LDVAYLQALS LELAEIIRRL EEEVFRLAGH  
480  
PFNLNSRDQL ERVLFDELRL PALKKTKKTG KRSTSAAVLE ALREAHPIVE KILQHRELTK  
540  
LKNTYVDPLP SLVHPRTGRL HTRFNQTATA TGRLSSSDPN LQNIPVRTPL GQRIRRAFVA  
600  
EAGWALVALD YSQIELRVLA HLSGDENLIR VFQEGKDIHT QTASWMFGVP PEAVDPLMRR  
660  
AAKTVNFGVL YGMSAHRISQ ELAIPYEEAV AFIERYFQSF PKVRAWIEKT LEEGRKRGYV  
720  
ETLFGRRRYV PDLNARVKS REAAERMAFN MPVQGTADL MKLAMVKLFP RLREMGARML  
780  
LQVANELLLE APQARAEVA ALAKEAMEKA YPLAVPLEVE VGMGEDWLSA KGHHHHHH  
838

<212> Type : PRT  
<211> Length : 838  
SequenceName : 2851  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence
<400> PreSequenceString :
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ctggcctacc gcacccgcca cgccctgaag ggcctcacca ccagccgcgg ggagccggtc
120
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240
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1740

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2514

<212> Type : DNA

<211> Length : 2514

SequenceName : 2852

SequenceDescription :

Custom Codon

Sequence Name : 2852

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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VIVVFDKAP SFRHQTYEAY KAGRPTPED FPRQLALIKE MVDLLGLERL EVPGFEADDV  
120  
LATLAKKAEK EGYEVRILTA DRDLYQLLSE RISILHPEGY LITPEWLWEK YGLKPSQWVD  
180  
YRALAGDPSD NIPGVKGIGE KTAACLIREW GSLENLLKHL EQVKPASVRE KILSHMEDLK  
240  
LSLELSRVHT DLLLQVDFAR RREPDRGLK AFLERLEFGS LLHEFGLLES PVAAEEAPWP  
300  
PPEGAFVGYV LSRPEPMWAE LNALAAWGG RVHRAADPLA GLKDLKEVRG LLAKDLAVLA  
360  
SREGLDLVPG DDPMLLAYLL GPSNTTPEGV ARRYGGEWTE DAAHRALLSE RLHRNLLKRL  
420  
EGEEKLLWLY HEVEKPLSRV LAHMEATGVR LDVAYLQALS LELAEIIRRL EEEVFRLAGH  
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PFNLNSRDQL ERVLFDELRL PALKKTKKTG KRSTSAAVLE ALREAHPIVE KILQHRELTK  
540  
LKNTYVDPLP SLVHPRTGRL HTRFNQTATA TGRLLSSSDPN LQNIPTVRTPL GQIRIRAFVA  
600  
EAGWALVALD YSQIELRVLA HLSGDNELIR VFQEGKDIHT QTASWMFGVP PEAVDPLMRR

660  
AAKTVNFGVL YGMSAHRLSQ ELAIPYEEAV AFIERYFQSF PKVRAWIEKT LEEGRKRGYV  
720  
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<212> Type : PRT  
<211> Length : 838  
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<212> Type : DNA

<211> Length : 2514

SequenceName : 2854

SequenceDescription :

Custom Codon

Sequence Name : 2854

Sequence

<213> OrganismName : Artificial Sequence

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<212> Type : DNA

<211> Length : 2517

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SequenceDescription :

Custom Codon

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Sequence Name : 2856

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180  
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300  
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660  
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839

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<211> Length : 839  
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31  
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Sequence Name : 2858

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31  
<212> Type : DNA  
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SequenceName : 2859  
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Custom Codon

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Sequence Name : 2859

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Sequence Name : 2860

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28  
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SequenceDescription :

Custom Codon

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Sequence Name : 2861

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SequenceDescription :

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Sequence Name : 2862

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39



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Sequence Name : 2867

<110> OrganizationName : Third Wave Technologies, Inc.

<120> Title : RNA Detection Assays

<130> AppFileReference : FORS-06666

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180  
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240  
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360  
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480  
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540  
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720  
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839

<212> Type : PRT

<211> Length : 839

SequenceName : 2641

SequenceDescription :

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180  
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360  
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<212> Type : PRT

<211> Length : 839

SequenceName : 2642

SequenceDescription :

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<213> OrganismName : Artificial Sequence

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839

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<211> Length : 839

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SequenceDescription :

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<213> OrganismName : Artificial Sequence

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300
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAPEPY KALRDLKEAR GLLAKDLSVL
360
ALREGLGLPP GDDPMLLAYL LDPSNTTPEG VARRYGGEWT EEAGERAALS ERLFANLWGR
420
LEGEERLLWL YREVERPLSA VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEEVFRLAG
480
HPFNLNSRDQ LERVLFDEL R PALGKTQKT GKRSTSAAVL EALREAHPIV EKILQHRELT
540
KLKNTYVDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFI
600
AEEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR
660
RAAKTINFGV LYGMSAHRIS QELAIPIYEEA QAFIERYFQS FPKVRAWIEK TLEEGRRRGY
720
VETLFGRRRY VPDLEARVKS VREAAERMAF NMPVQGTAD LMKLAMVKLF PRLEEMGARM
780
LLQVHNELVL EAPKERAFAV ARLAKEVMEG VYPLAVPLEV EVGIGEDWLS AKEHHHHHHH
839

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<212> Type : PRT
<211> Length : 839
      SequenceName : 2644
      SequenceDescription :

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#### Sequence

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<213> OrganismName : Artificial Sequence
<400> PreSequenceString :
MSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG
60
DAVIVVFDK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYED
120
DVLASLAKKA EKEGYEVRIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW
180
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL
240
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW
300
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAPEPY KALRDLKEAR GLLAKDLSVL
360
ALREGLGLPP GDDPMLLAYL LDPSNTTPEG VARRYGGEWT EDAHRALLS ERLHRNLLKR
420
LEGEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEEVFRLAG
480
HPFNLNSRDQ LERVLFDEL R PALGKTQKT GKRSTSAAVL EALREAHPIV EKILQHRELT
540
KLKNTYVDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFI
600
AEEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR
660

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RAAKTINFGV LYGMSAHRLS QELAIPYEEA QAFIERYFQS FPKVRAWIEK TLEEGRRRGY  
720  
VETLFGRRRY VPDLEARVKS VREAAERMAF NMPVQGTAA D LMKLAMVKLF PRLEEMGARM  
780  
LLQVHNELVL EAPKERAEAV ARLAKEVM EG VYPLAVPLEV EVGIGEDWLS AKEHHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2645  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG  
60  
DAVIVVFD AK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYEAD  
120  
DVLASLAKKA EKEGYEVRIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEWT EEAGERAALS ERLFANLWGR  
420  
LEGEERLLWL YREVERPLSA VLAHMEATGV RLDVAYLRAL SLEVAEEIAR LEAEVFRLAG  
480  
HPFNLNSRDQ LERVLFDELG LPAIGKTEKT GKRSTSAAVL EALREAHPIV EKILQYRELT  
540  
KLKSTYIDPL PDLIHPTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFI  
600  
AEEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR  
660  
RAAKTINFGV LYGMSAHRLS QELAIPYEEA QAFIERYFQS FPKVRAWIEK TLEEGRRRGY  
720  
VETLFGRRRY VPDLEARVKS VREAAERMAF NMPVQGTAA D LMKLAMVKLF PRLEEMGARM  
780  
LLQVHNELVL EAPKERAEAV ARLAKEVM EG VYPLAVPLEV EVGIGEDWLS AKEHHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2646  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSEAMLPLF EPKGRVLLVD GHHLAYRTFF ALKGLTTSRG EPVQAVYGFA KSLKALKED  
60  
GYKAVFVVD AKAPSFRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDL YQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL

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240
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE
300
APWPPPEGAF VGFVLSRPEP MWAEKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL
360
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL
420
LKRLEGEEKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR
480
LAGHPFNLNS RDQLERVLFD ELRLPALGKT QKTGKRSTSA AVLEALREAH PIVEKILQHR
540
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNIPV RTPLGQRIRR
600
AFIAEEGWLL VALDYSQIEL RVLAHLSGDE NLIRVFQEGR DIHTETASWM FGVPREAVDP
660
LMRRAAKTIN FGVLYGMSAH RLSQELAIPY EEAQAFIERY FQSFPKVRW IEKTLEEGRR
720
RGYVETLFG RRYVPDLEAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPRLEEMG
780
ARMLLQVHNE LVLEAPKERA EAVARLAKEV MEGVYPLAVP LEVEVGIGED WLSAKEHHHH
840
HH
842
<212> Type : PRT
<211> Length : 842
      SequenceName : 2647
      SequenceDescription :

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# Sequence

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<213> OrganismName : Artificial Sequence
<400> PreSequenceString :
MNSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG
60
DAVIVVFDK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYead
120
DVLASLAKKA EKEGYEVRL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW
180
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL
240
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW
300
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL
360
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEWT EDAHRALLS ERLHRNLLKR
420
LEGEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEEVFRLAG
480
HPFNLNSRDQ LERVLFDLRL LPALGKTQKT GKRSTSAAVL EALREAHPIV EKILQHRELT
540
KLKNTYVDPL PSLVHPR TGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFV
600
AEAGWALVAL DYSQIELRVL AHLSDENLI RVFQEGKDIH TQTASWMFGV PPEAVDPLMR
660
RAAKTVNFGV LYGMSAHRLS QELAIPYEEA VAFIERYFQS FPKVRAWIEK TLEEGRKRGY
720
VETLFGRRRY VPDNLNARVKS VREAAERMAF NMPVQGTAA LMKLAMVKLF PRLREMGARM
780
LLQVHDELLL EAPQARAEV AALAKEAMEK AYPLAVPLEV EVGMGEDWLS AKG
833

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<212> Type : PRT  
<211> Length : 833  
SequenceName : 2648  
SequenceDescription :

Sequence  
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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG  
60  
DAVIVVFDK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYEAD  
120  
DVLASLAKKA EKEGYEVRIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEWT EDAHRALLS ERLHRNLLKR  
420  
LEGEEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEVFRLAG  
480  
HPFNLNSRDQ LERVLFDLRL LPALGKTQKT GKRSTSAAVL EALREAHPIV EKILQHREL  
540  
KLKNTYVDPL PSLVHPTGR LHTRFNQTAT ATGRLSSSDP NLQNIPTVTP LGQIRRAFI  
600  
AEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR  
660  
RAAKTINFGV LYGMSAHRIS QELAIPEEA QAFIERFYQS FPKVRAWIEK TLEEGRRRGY  
720  
VETLFGRRRY VPDLEARVKS VREAAERMAF NMPVQGTAD LMKLAMVKLF PRLEEMGARM  
780  
LLQVHDELVL EAPKERAFAV ARLAKEVMG VYPLAVPLEV EVGIGEDWLS AKE  
833

<212> Type : PRT  
<211> Length : 833  
SequenceName : 2649  
SequenceDescription :

Sequence  
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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG  
60  
DAVIVVFDK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYEAD  
120  
DVLASLAKKA EKEGYEVRIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAPEPY KALRDLKEAR GLLAKDLSVL  
360  
ALREGLGLPP GDDPMLLAYL LDPSNTTPEG VARRYGGEWT EEAGHRAALS ERLFANLWGR  
420

LEGEERLLWL YREVERPLSA VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEEVFRLAG  
480  
HPFNLNSRDQ LERVLFDELRL LPALGKTQKT GKRSTSAAVL EALREAHPIV EKILQHRELT  
540  
KLKNTYVDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQIRRAFI  
600  
AEEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR  
660  
RAAKTINFGV LYGMSAHRSL QELAIPYEEA QAFIERYFQS FPKVRAWIEK TLEEGRRRGY  
720  
VETLFGRRRY VPDLEARVKS VREAAERMAF NMPVQGTAA LMKLAMVKLF PRLEEMGARM  
780  
LLQVHNELVL EAPKERAFAV ARLAKEVMG VYPLAVPLEV EVGIGEDWLS AKEHHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2650  
SequenceDescription :

#### Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG  
60  
DAVIVVFAK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYead  
120  
DVLASLAKKA EKEGYEVRIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAPEPY KALRDLKEAR GLLAKDLSVL  
360  
ALREGLGLPP GDDPMLLAYL LDPSNTTPEG VARRYGGEWT EEAGERAALS ERLHRNLWGR  
420  
LEGEERLLWL YREVERPLSA VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEEVFRLAG  
480  
HPFNLNSRDQ LERVLFDELRL LPALGKTQKT GKRSTSAAVL EALREAHPIV EKILQHRELT  
540  
KLKNTYVDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQIRRAFI  
600  
AEEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR  
660  
RAAKTINFGV LYGMSAHRSL QELAIPYEEA QAFIERYFQS FPKVRAWIEK TLEEGRRRGY  
720  
VETLFGRRRY VPDLEARVKS VREAAERMAF NMPVQGTAA LMKLAMVKLF PRLEEMGARM  
780  
LLQVHNELVL EAPKERAFAV ARLAKEVMG VYPLAVPLEV EVGIGEDWLS AKEHHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2651  
SequenceDescription :

#### Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :  
MMSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG  
60  
DAVIVVFDK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYEAD  
120  
DVLASLAKKA EKEGYEVRII TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAPEPY KALRDLKEAR GLLAKDLSVL  
360  
ALREGLGLPP GDDPMLLAYL LDPSNTTPEG VARRYGGEWT EEAGERAALS ERLFANLLKR  
420  
LEGEERLLWL YREVERPLSA VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEEVFRLAG  
480  
HPFNLNSRDQ LERVLFDELRL LPALGKTQKT GKRSTSAAVL EALREAHPIV EKILQHREL  
540  
KLKNTYVDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFI  
600  
AEEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR  
660  
RAAKTINFGV LYGMSAHRIS QELAIPIYEA QAFIERFYQS FPKVRAWIEK TLEEGRRRGY  
720  
VETLFGRRRY VPDLEARVKS VREAAERMAF NMPVQGTAD LMKLAMVKLF PRLEEMGARM  
780  
LLQVHNEVL EAPKERAEAV ARLAKEVMEG VYPLAVPLEV EVGIGEDWLS AKEHHHHHHH  
839

<212> Type : PRT

<211> Length : 839

SequenceName : 2652

SequenceDescription :

#### Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

MMSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG  
60  
DAVIVVFDK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYEAD  
120  
DVLASLAKKA EKEGYEVRII TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAPEPY KALRDLKEAR GLLAKDLSVL  
360  
ALREGLGLPP GDDPMLLAYL LDPSNTTPEG VARRYGGEWT EEAGERAALS ERLFANLWGR  
420  
LEGEERLLWL YREVERPLSR VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEEVFRLAG  
480  
HPFNLNSRDQ LERVLFDELRL LPALGKTQKT GKRSTSAAVL EALREAHPIV EKILQHREL  
540  
KLKNTYVDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFI  
600  
AEEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR  
660

RAAKTINFGV LYGMSAHRLS QELAIPYEEA QAFIERYFQS FPKVRAWIEK TLEEGRRRGY  
720  
VETLFGRRRY VPDLEARVKS VREAARMAF NMPVQGTAA LMKLAMVKLF PRLEEMGARM  
780  
LLQVHNELVL EAPKERAEAV ARLAKEVM EG VYPLAVPLEV EVGIGEDWLS AKEHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2653  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG  
60  
DAVIVVFDK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYEAD  
120  
DVLASLAKKA EKEGYEVRIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLE SPKALEEAPW  
300  
PPPEGA FVG F VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEWT EDAAHRALLS ERLHRNLLKR  
420  
LEGEEKLLWL YHEVEKPLSR VLAHMEATGV RRDVAYLRAL SLEVABEIR LEAEVFRLAG  
480  
HPFNLNSRDQ LERVLFDELG LPAIGKTEKT GKRSTSAAVL EALREAHPIV EKILQYRELT  
540  
KLKSTYIDPL PDLIHPTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFI  
600  
AEEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR  
660  
RAAKTINFGV LYGMSAHRLS QELAIPYEEA QAFIERYFQS FPKVRAWIEK TLEEGRRRGY  
720  
VETLFGRRRY VPDLEARVKS VREAARMAF NMPVQGTAA LMKLAMVKLF PRLEEMGARM  
780  
LLQVHNELVL EAPKERAEAV ARLAKEVM EG VYPLAVPLEV EVGIGEDWLS AKEHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2654  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG  
60  
DAVIVVFDK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYEAD  
120  
DVLASLAKKA EKEGYEVRIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL





<211> Length : 839  
SequenceName : 2656  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG  
60  
DAVIVVFDK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYEAD  
120  
DVLASLAKKA EKEGYEVRIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEW EDAHRALLS ERLHRNLLKR  
420  
LEGEEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLRAL SLEVAEEIRR LEAEVFRLAG  
480  
HPFNLNSRDQ LERVLFDELG LPAIGKTEKT GKRSTSAAVL EALREAHPIV EKILQYRELT  
540  
KLKSTYIDPL PDLIHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPV RTP LGQRIRRAFI  
600  
AEEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR  
660  
RAAKTINFGV LYGMSAHRLS QELAIPYEEA QAFIERYFQS FPKVRAWIEK TLEEGRRRGY  
720  
VETLFGRRRY VPDLEARVKS VREAAERMAF NMPVQGTAD LMKLAMVKLF PRLEEMGARM  
780  
LLQVHNELVL EAPKERA EAV ARLAKEVM EGVYPLAVPLEV EVGIGEDWLS AKEHHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2657  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG  
60  
DAVIVVFDK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYEAD  
120  
DVLASLAKKA EKEGYEVRIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEW EDAHRALLS ERLHRNLLKR  
420  
LEGEEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLRAL SLEVAEEIAR LEEEVFRLAG

480  
HPFNLNSRDQ LERVLFDDELG LPAIGKTEKT GKRSTSAAVL EALREAHPIV EKILQYRELT  
540  
KLKSTYIDPL PDLIHPTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFI  
600  
AEEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR  
660  
RAAKTINFGV LYGMSAHRIS QELAIPYEEA QAFIERYFQS FPKVRAWIEK TLEEGRRRGY  
720  
VETLFGRRRY VPDLEARVKS VREAAERMAF NMPVQGTAA LMKLAMVKLF PRLEEMGARM  
780  
LLQVHNELVL EAPKERAFAV ARLAKEVMFG VYPLAVPLEV EVGIGEDWLS AKEHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2658  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG  
60  
DAVIVVFAK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYFAD  
120  
DVLASLAKKA EKEGYEVRIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW  
300  
PPPEGAFFVF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEWT EDAAHRALLS ERLHRNLLKR  
420  
LEGEEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLRAL SLEVAEEIAR LEAEVFRLAG  
480  
HPFNLNSRDQ LERVLFDDELG LPAIGKTEKT GKRSTSAAVL EALREAHPIV EKILQYRELT  
540  
KLKSTYIDPL PDLIHPTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFI  
600  
AEEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR  
660  
RAAKTINFGV LYGMSAHRIS QELAIPYEEA QAFIERYFQS FPKVRAWIEK TLEEGRRRGY  
720  
VETLFGRRRY VPDLEARVKS VREAAERMAF NMPVQGTAA LMKLAMVKLF PRLEEMGARM  
780  
LLQVHNELVL EAPKERAFAV ARLAKEVMFG VYPLAVPLEV EVGIGEDWLS AKEHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2659  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :

1000439 - 022602

MNSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG  
60  
DAVIVVFDK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYead  
120  
DVLASLAKKA EKEGYEVRIIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEWT EDAAHRALLS ERLHRNLLKR  
420  
LEGEEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLRAL SLEVAEEIAR LEAEVFRLAG  
480  
HPFNLNSRDQ LERVLFDELG LPAIGKTQKT GKRSTSAAVL EALREAHPIV EKILQYRELT  
540  
KLKSTYIDPL PDLIHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFI  
600  
AEEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR  
660  
RAAKTINFGV LYGMSAHRLS QELAIPYEEA QAFIERFYQS FPKVRAWIEK TLEEGRRRGY  
720  
VETLFGRRRY VPDLEARVKS VREAAERMAF NMPVQGTAA LMKLAMVKLF PRLEEMGARM  
780  
LLQVHNELVL EAPKERAEAV ARLAKEVMEG VYPLAVPLEV EVGIGEDWLS AKEHHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2660  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG  
60  
DAVIVVFDK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYead  
120  
DVLASLAKKA EKEGYEVRIIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEWT EDAAHRALLS ERLHRNLLKR  
420  
LEGEEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLRAL SLEVAEEIAR LEAEVFRLAG  
480  
HPFNLNSRDQ LERVLFDELG LPAIGKTEKT GKRSTSAAVL EALREAHPIV EKILQHRELT  
540  
KLKSTYIDPL PDLIHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFI  
600  
AEEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR  
660  
RAAKTINFGV LYGMSAHRLS QELAIPYEEA QAFIERFYQS FPKVRAWIEK TLEEGRRRGY

720  
VETLFGRRRY VPDLEARVKS VREAAERMAF NMPVQGTAA LMKLAMVKLF PRLEEMGARM  
780  
LLQVHNELVL EAPKERAEAV ARLAKEVMEG VYPLAVPLEV EVGIGEDWLS AKEHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2661  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MMSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG  
60  
DAVIVVFDK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYEAD  
120  
DVLASLAKKA EKEGYEVRIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEW EDAHRALLS ERLHRNLLKR  
420  
LEGEEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLRAL SLEVAEEIAR LEAEVFRLAG  
480  
HPFNLNSRDQ LERVLFDELG LPAIGKTEKT GKRSTSAAVL EALREAHPIV EKILQYRELT  
540  
KLKNTYIDPL PDLIHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFI  
600  
AEEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR  
660  
RAAKTINFGV LYGMSAHRLS QELAIPYEEA QAFIERYFQS FPKVRAWIEK TLEEGRRRGY  
720  
VETLFGRRRY VPDLEARVKS VREAAERMAF NMPVQGTAA LMKLAMVKLF PRLEEMGARM  
780  
LLQVHNELVL EAPKERAEAV ARLAKEVMEG VYPLAVPLEV EVGIGEDWLS AKEHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2662  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MMSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG  
60  
DAVIVVFDK APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYEAD  
120  
DVLASLAKKA EKEGYEVRIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240

KLSDWLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEWT EDAAHRALLS ERLHRNLLKR  
420  
LEGEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLRAL SLEVAEEIAR LEAEVFRLAG  
480  
HPFNLNSRDQ LERVLFDELG LPAIGKTEKT GKRSTSAAVL EALREAHPIV EKILQYRELT  
540  
KLKSTYVDPL PDLIHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFI  
600  
AEEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR  
660  
RAAKTINFGV LYGMSAHRIS QELAIPIYEEA QAFIERYFQS FPKVRAWIEK TLEEGRRRGY  
720  
VETLFGRRRY VPDLEARVKS VREAAERMAF NMPVQGTAA DLMKLAMVKLF PRLEEMGARM  
780  
LLQVHNELVL EAPKERAFAV ARLAKEVMFG VYPLAVPLEV EVGIGEDWLS AKEHHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2663  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAG SLLKALKEDG  
60  
DAVIVVFDAG APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGLA RLEVPGYEAD  
120  
DVLASLAKKA EKEGYEVRII TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSDWLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEWT EDAAHRALLS ERLHRNLLKR  
420  
LEGEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLRAL SLEVAEEIAR LEAEVFRLAG  
480  
HPFNLNSRDQ LERVLFDELG LPAIGKTEKT GKRSTSAAVL EALREAHPIV EKILQYRELT  
540  
KLKSTYIDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFI  
600  
AEEGWLLVAL DYSQIELRVL AHLSGDENLI RVFQEGRDIH TETASWMFGV PREAVDPLMR  
660  
RAAKTINFGV LYGMSAHRIS QELAIPIYEEA QAFIERYFQS FPKVRAWIEK TLEEGRRRGY  
720  
VETLFGRRRY VPDLEARVKS VREAAERMAF NMPVQGTAA DLMKLAMVKLF PRLEEMGARM  
780  
LLQVHNELVL EAPKERAFAV ARLAKEVMFG VYPLAVPLEV EVGIGEDWLS AKEHHHHHHH  
839

<212> Type : PRT  
<211> Length : 839

SequenceName : 2664  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSEAMLPLF EPKGRVLLVD GHHLAYRTFF ALKGLTTSRG EPVQAVYGFA KSLLKALKED  
60  
GYKAVFVVFD AKAPSRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRSLLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAELKALAA CRDGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGEEKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLS RDQLERVLFD ELRLPALGKT QKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNIPV RTPLGQRIRR  
600  
AFVAEAGWAL VALDYSQIEL RVLAHLSGDE NLIRVFQEGK DIATQTASWM FGVPPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFPKVRAW IEKTLEEGRK  
720  
RGYVETLFG RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPRLEMG  
780  
ARMLLQVHNE LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
840  
HH  
842  
<212> Type : PRT  
<211> Length : 842  
SequenceName : 2665  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSEAMLPLF EPKGRVLLVD GHHLAYRTFF ALKGLTTSRG EPVQAVYGFA KSLLKALKED  
60  
GYKAVFVVFD AKAPSRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRSLLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGEEKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR

480  
LAGHPFNLNS RDQLERVLFD ELRLPALGKT QKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNIPV RTPLGQRIRR  
600  
AFVAEAGWAL VALDYSQIEL RVL AHL SGDE NLIRVFQEGK DIHTQTASWM FGVPPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFPKVRW IEKTLEEGRK  
720  
RGYVETLFGR RRYVPDLNAR VKSVREAAEA MAFNMPVQGT AADLMKLAMV KLFPR LREM G  
780  
ARMLLQVHNE LLLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
840

HH

842

<212> Type : PRT

<211> Length : 842

SequenceName : 2666

SequenceDescription :

# Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSEAMLPLF EPKGRVLLVD GHHLAYRTFF ALKGLTTSRG EPVQAVYGFA KSLLKALKED  
60  
GYKAVFVVD AKAPSRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRLSLELS RVRTDLPLEV DLAQGREGPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDA AHRA LLSERLHRNL  
420  
LKRLEGECKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLNS RDQLERVLFD ELRLPALGKT QKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNIPV RTPLGQRIRR  
600  
AFVAEAGWAL VALDYSQIEL RVL AHL SGDE NLIRVFQEGK DIHTQTASWM FGVPPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFPKVRW IEKTLEEGRK  
720  
RGYVETLFGR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPR LREM G  
780  
ARMLLQVANE LLLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
840

HH

842

<212> Type : PRT

<211> Length : 842

SequenceName : 2667

SequenceDescription :

# Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSEAMLPLF EPKGRVLLVD GHHLAYRTFF ALKGLTTSRG EPVQAVYGFA KSLLKALKED  
60  
GYKAVFVVD AKAPSRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDPMML AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGEEKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLNS RDQLERVLFD ELRLPALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNIPV RTPLGQRIRR  
600  
AFVAEAGWAL VALDYSQIEL RVLAHLSGDE NLIRVFQEGK DIHTQTASWM FGVPPAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIER Y FQSF PKVRAW IEKTL EGRK  
720  
RGYVETLFR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPR LREM  
780  
ARMLLQVANE LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
840  
HH  
842  
<212> Type : PRT  
<211> Length : 842  
SequenceName : 2668  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSEAMLPLF EPKGRVLLVD GHHLAYRTFF ALKGLTTSRG EPVQAVYGFA KSLLKALKED  
60  
GYKAVFVVD AKAPSRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLRGVR GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDPMML AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGEEKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLNS RDQLERVLFD ELRLPALGKT QKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNIPV RTPLGQRIRR  
600

AFVAEAGWAL VALDYSQIEL RVLAHLSGDE NLIRVFQEGK DIHTQTASWM FGVPPPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFPKVRW IEKTLEEGRK  
720  
RGYVETLFGF RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLMV KLFPRRLREMG  
780  
ARMLLQVANE LLLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
840  
HH  
842  
<212> Type : PRT  
<211> Length : 842  
SequenceName : 2669  
SequenceDescription :

#### Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSEAMLPLF EPKGRVLLVD GHHLAYRTFF ALKGLTTSRG EPVQAVYGFA KSLLKALKED  
60  
GYKAVFVVFD AKAPSFREHA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPQVK GIGEYALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDRLSLELS RVRTDPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDPMML AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGEEKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLNS RDQLERVLFD ELRLPALGKT QKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNIPIV RTPLGQRIIR  
600  
AFVAEAGWAL VALDYSQIEL RVLAHLSGDE NLIRVFQEGK DIHTQTASWM FGVPPPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFPKVRW IEKTLEEGRK  
720  
RGYVETLFGF RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLMV KLFPRRLREMG  
780  
ARMLLQVANE LLLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
840  
HH  
842  
<212> Type : PRT  
<211> Length : 842  
SequenceName : 2670  
SequenceDescription :

#### Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
MNSEAMLPLF EPKGRVLLVD GHHLAYRTFF ALKGLTTSRG EPVQAVYGFA KSLLKALKED  
60  
GYKAVFVVFD AKAPSFREHA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE

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120
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE
180
QWVDFRALVG DPSDNLPGVK GIREKTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAH
240
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE
300
APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL
360
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RGYVETLFGR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPRRLREMG
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842
<212> Type : PRT
<211> Length : 842
      SequenceName : 2671
      SequenceDescription :

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# Sequence

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ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL
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300
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360
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HPFNLNSRDQ LERVLFDELRL LPALKKTKKT GKRSTSAAVL EALREAHPIV EKILQHRELT
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KLKNTYVDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFV
600
AEAGWALVAL DYSQIELRVL AHLSGDENLI RVFQEGKDIH QTASWMFGV PPEAVDPLMR
660
RAAKTVNFGV LYGMSAHRLS QELAIPYEEA VAFIERYFQS FPKVRAWIEK TLEEGRKRGY
720
VETLFGRRRY VPDNLNARVKS VREAAERMAF NMPVQGTAA LMKLAMVKLF PRLREMGARM

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780  
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839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2672  
SequenceDescription :

Sequence

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LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFPKVRW IEKTLEEGRK  
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840  
HH  
842

<212> Type : PRT  
<211> Length : 842  
SequenceName : 2673  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
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LATLAKKAEK EGYEVRILTA DRDLYQLLSE RISILHPEGY LITPEWLWEK YGLKPSQWVD  
180  
YRALAGDPSD NIPGVKGIGE KTAAKLIREW GSLENLLKHL EQVKPASVRE KILSHMEDLK  
240  
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2517

<212> Type : DNA

<211> Length : 2517

SequenceName : 2675

SequenceDescription :

Custom Codon

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Sequence Name : 2675

## Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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<212> Type : DNA

<211> Length : 2517

SequenceName : 2676

SequenceDescription :

Custom Codon

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Sequence Name : 2676

Sequence

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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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<212> Type : DNA  
<211> Length : 2517  
SequenceName : 2677  
SequenceDescription :

Custom Codon

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Sequence Name : 2677

Sequence

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<213> OrganismName : Artificial Sequence  
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<212> Type : DNA
<211> Length : 2517
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Custom Codon

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Sequence Name : 2678

Sequence

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<212> Type : DNA

<211> Length : 2517

SequenceName : 2679

SequenceDescription :

Custom Codon

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Sequence Name : 2679

Sequence

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<213> OrganismName : Artificial Sequence

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<212> Type : DNA

<211> Length : 2517

SequenceName : 2680

SequenceDescription :

Custom Codon

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Sequence Name : 2680

Sequence  
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<213> OrganismName : Artificial Sequence

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<212> Type : DNA
<211> Length : 2526
      SequenceName : 2681
      SequenceDescription :

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Custom Codon

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Sequence Name : 2681

Sequence

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<213> OrganismName : Artificial Sequence
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480

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<212> Type : DNA  
<211> Length : 2499  
SequenceName : 2682  
SequenceDescription :

Custom Codon

Sequence Name : 2682

Sequence

<213> OrganismName : Artificial Sequence  
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2040
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2220
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2280
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2340
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2400
gcccggtgg ccaaggaggt catggagggg gtgtatcccc tggccgtgcc cctggagggtg
2460
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2499

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<212> Type : DNA
<211> Length : 2499
      SequenceName : 2683
      SequenceDescription :

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Custom Codon

Sequence Name : 2683

Sequence

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<213> OrganismName : Artificial Sequence
<400> PreSequenceString :
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120
ccggtgcagg cgggtctacg cttcgccaag agcctcctca aggccctcaa ggaggacggg

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180  
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720  
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960  
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1980



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2160
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2280
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2400
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2517
    
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<212> Type : DNA

<211> Length : 2517

SequenceName : 2685

SequenceDescription :

Custom Codon

Sequence Name : 2685

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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120  
ccggtgcagg cgggtctacgg cttcgccaag agcctcctca aggccctcaa ggaggacggg  
180  
gacgcggtga tcgtggtctt tgacgccaag gccccctcct tccgccacga ggcctacggg  
240  
gggtacaagg cggggccgggc cccacagccg gaggactttc cccggcaact cgccctcatc  
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480  
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900  
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960  
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1140  
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 2517

<212> Type : DNA

<211> Length : 2517

SequenceName : 2686

SequenceDescription :

Custom Codon

Sequence Name : 2686

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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 120  
 ccggtgcagg cgtctacgg cttcgccaag agcctcctca aggccctcaa ggaggacggg  
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 gggtaacaagg cgggccgggc cccacgcgcg gaggactttc cccggcaact cgccctcatc  
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 480



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 2280  
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2340  
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2400  
gcccggctgg ccaaggaggt catggagggg gtgtatcccc tggccgtgcc cctggaggtg  
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2517

<212> Type : DNA  
<211> Length : 2517  
SequenceName : 2687  
SequenceDescription :

Custom Codon

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Sequence Name : 2687

Sequence

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<213> OrganismName : Artificial Sequence  
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120  
ccggtgcagg cgggtctacgg cttcgccaag agcctcctca aggccctcaa ggaggacggg  
180  
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1200

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2517

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<212> Type : DNA
<211> Length : 2517
      SequenceName : 2688
      SequenceDescription :

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Custom Codon

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Sequence Name : 2688

Sequence

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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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 2517

<212> Type : DNA  
 <211> Length : 2517  
 SequenceName : 2689  
 SequenceDescription :

Custom Codon

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Sequence Name : 2689

Sequence

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<213> OrganismName : Artificial Sequence  
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2517

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<212> Type : DNA
<211> Length : 2517
      SequenceName : 2690

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SequenceDescription :

Custom Codon

Sequence Name : 2690

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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120  
ccggtgcagg cgggtctacgg cttcgccaag agcctcctca aggccctcaa ggaggacggg  
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240  
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 2517

<212> Type : DNA

<211> Length : 2517

SequenceName : 2691

SequenceDescription :

Custom Codon

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Sequence Name : 2691

Sequence

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<213> OrganismName : Artificial Sequence

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2517

<212> Type : DNA  
<211> Length : 2517  
SequenceName : 2692  
SequenceDescription :

Custom Codon

Sequence Name : 2692

Sequence

<213> OrganismName : Artificial Sequence  
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2160
gtggagacc tcttcggccg ccgcccgtac gtgccagacc tagaggcccg ggtgaagagc
2220
gtgcgggagg cggccgagcg catggccttc aacatgcccg tccagggcac cgccgccgac
2280
ctcatgaagc tggctatggt gaagctcttc cccaggctgg aggaaatggg ggccaggatg
2340
ctccttcagg tccacaacga gctggtcctc gaggcccaa aagagagggc ggaggccgtg
2400
gcccggctgg ccaaggaggt catggagggg gtgtatcccc tggccgtgcc cctggaggtg
2460
gaggtgggga taggggagga ctggctctcc gccaaaggag accaccacca ccaccac
2517

```

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<212> Type : DNA
<211> Length : 2517
      SequenceName : 2693
      SequenceDescription :

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Custom Codon

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Sequence Name : 2693

Sequence

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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

atgaattcgg ggatgctgcc cctctttgag cccaagggcc gggtcctcct ggtggacggc

60  
 caccacctgg cctaccgcac cttccacgcc ctgaagggcc tcaccaccag ccgggggggag  
 120  
 ccggtgcagg cgggtctacgg cttcgccaag agcctcctca aggccctcaa ggaggacggg  
 180  
 gacgcggtga tcgtggtctt tgacgccaaag gccccctcct tccgccacga ggcttacggg  
 240  
 gggtagaagg cgggccggggc ccccacgccg gaggactttc cccggcaact cgcctcatc  
 300  
 aaggagctgg tggacctcct ggggctggcg cgcctcgagg tcccgggcta cgaggcggac  
 360  
 gacgtcctgg ccagcctggc caagaaggcg gaaaaggagg gctacgaggt ccgcatcctc  
 420  
 accgccgaca aagaccttta ccagctcctt tccgaccgca tccacgtcct ccaccccgag  
 480  
 gggtagctca tcaccccggc ctggcttttg gaaaagtacg gcctgaggcc cgaccagtgg  
 540  
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 600  
 ggggagaaga cggcgaggaa gcttctggag gagtggggga gcctggaagc cctcctcaag  
 660  
 aacctggacc ggctgaagcc cgccatcccg gagaagatcc tggcccatat ggacgatctg  
 720  
 aagctctcct gggacctggc caagggtgcg accgacctgc ccctggagggt ggacttcgcc  
 780  
 aaaaggcggg agcccgaccg ggagaggctt agggcctttc tggagaggct tgagtcttggc  
 840  
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 900  
 cccccgccgg aaggggcctt cgtgggcttt gtgctttccc gcaaggagcc catgtgggcc  
 960  
 gatcttctgg ccctggccgc cgccaggggc ggccgcgtgc accgggcagc agacccttg  
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 1140  
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 1200  
 gaggacgccg cccaccgggc cctcctctcg gagaggctcc atcggaacct ccttaagcgc  
 1260  
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 gtcctggccc atatggaggc cacgggggtg cgcttgagcg tggcctatct cagggccttg  
 1380  
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 1620  
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 1680  
 ctccacacc gcttcaacca gacggccacg gccacgggca ggctaagtag ctccgatccc  
 1740  
 aacctccaga acatccccgt ccgcaccccg cttgggcaga ggatccgcg ggccctcatc  
 1800  
 gccgaggagg ggtggctatt ggtggccctg gactatagcc agatagagct caggggtgctg  
 1860

```

gccacctct ccggcgacga gaacctgac cggtcttcc aggagggcg ggacatccac
1920
acggagaccg ccagctggat gttcggcgtc cccggggagg ccgtggaccc cctgatgcgc
1980
cgggcggcca agaccatcaa cttcggggtc ctctacggca tgtcggccca ccgcctctcc
2040
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2100
ttccccaagg tgcgggcctg gattgagaag accctggagg agggcaggag gcgggggtac
2160
gtggagaccc tcttcggcgc ccgcccgtac gtgccagacc tagaggcccg ggtgaagagc
2220
gtgcgggagg cggccgagcg catggccttc aacatgcccg tccagggcac cgccgccgac
2280
ctcatgaagc tggctatggt gaagctcttc cccaggctgg aggaaatggg ggccaggatg
2340
ctccttcagg tccacaacga gctggctctc gaggcccaa aagagagggc ggaggccgtg
2400
gcccggtgg ccaaggagggt catggagggg gtgtatcccc tggccgtgcc cctggaggtg
2460
gaggtgggga taggggagga ctggctctcc gccaaaggagc accaccacca ccaccac
2517

```

<212> Type : DNA

<211> Length : 2517

SequenceName : 2694

SequenceDescription :

Custom Codon

Sequence Name : 2694

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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60
caccacctgg cctaccgcac cttccacgcc ctgaagggcc tcaccaccag ccggggggag
120
cgggtgcagg cggctctacg cttcgccaag agcctcctca aggcctcaa ggaggacggg
180
gacgcggtga tcgtggtctt tgacgccaag gccccctcct tccgccacga ggcctacggg
240
gggtacaagg cgggcccggc cccacgccc gaggactttc cccggcaact cgccctcatc
300
aaggagctgg tggacctcct ggggctggcg cgcctcgagg tcccgggcta cgaggcggac
360
gacgtcctgg ccagcctggc caagaaggcg gaaaaggagg gctacgaggt ccgcctcctc
420
accgccgaca aagaccttta ccagctcctt tccgaccgca tccacgtcct ccaccccgag
480
gggtacctca tcaccccggc ctggcttttg gaaaagtacg gcctgaggcc cgaccagtgg
540
gccgactacc gggccctgac cggggacgag tccgacaacc tcccgggggt caagggcacg
600
ggggagaaga cggcgaggaa gcttctggag gagtggggga gcctggaagc cctcctcaag
660
aacctggacc ggctgaagcc cgccatccgg gagaagatcc tggcccacat ggacgatctg
720
aagctctcct gggacctggc caaggtgcgc accgacctgc ccctggaggt ggacttcgcc

```



<211> Length : 2517  
SequenceName : 2695  
SequenceDescription :

Custom Codon

Sequence Name : 2695

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

atgaattcgg ggatgctgcc cctctttgag cccaagggcc gggtcctcct ggtggacggc  
60  
caccacctgg cctaccgcac cttccacgcc ctgaagggcc tcaccaccag ccgggggggag  
120  
ccgggtgcagg cggctctacgg cttcgccaag agcctcctca aggccctcaa ggaggacggg  
180  
gacgcggtga tcgtggcttt tgacgccaag gccccctcct tccgccacga ggcctacggg  
240  
gggtacaagg cgggcccgggc cccacgcgcg gaggactttc cccggcaact cgccctcatc  
300  
aaggagctgg tggacctcct ggggctggcg cgcctcgagg tcccgggcta cgaggcggac  
360  
gacgtcctgg ccagcctggc caagaaggcg gaaaaggagg gctacgaggt ccgcctcctc  
420  
accgccgaca aagaccttta ccagctcctt tccgaccgca tccacgtcct ccaccccag  
480  
gggtacctca tcaccccggc ctggcttttg gaaaagtacg gcctgaggcc cgaccagtgg  
540  
gccgactacc gggccctgac cggggacgag tccgacaacc ttcccggggg caagggcatc  
600  
ggggagaaga cggcgaggaa gcttctggag gagtggggga gcctggaagc cctcctcaag  
660  
aacctggacc ggctgaagcc cgccatccgg gagaagatcc tggcccacat ggacgatctg  
720  
aagctctcct gggacctggc caaggtgcgc accgacctgc ccctggaggt ggacttcgcc  
780  
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840  
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900  
cccccgccgg aaggggcctt cgtgggcttt gtgctttccc gcaaggagcc catgtgggcc  
960  
gatctttctg ccctggccgc cgccaggggc ggccgcgtgc accgggcagc agacccttg  
1020  
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1080  
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1140  
ctggggccct cgaacaccac ccccgagggg gtggcgcggc gctacggggg ggagtggacg  
1200  
gaggacgccc cccaccgggc cctcctctcg gagaggctcc atcggaacct ccttaagcgc  
1260  
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1320  
gtcctggccc atatggaggc cacgggggtg cgcctggacg tggcctatct cagggccttg  
1380  
tccttgaggg tggccgagga gatcgccgc ctcgaggccg aggtcttccg cctggccggc  
1440  
cacccttca acctcaactc ccgggaccag ctggaaaggg tcctctttga cgagctaggg

1500  
 cttccccgcca tcggcaagac ggagaagacc ggcaagcgct ccaccagcgc cgccgtcctg  
 1560  
 gaggccctcc gcgaggccca ccccatcgtg gagaagatcc tgcagtaccg ggagctcacc  
 1620  
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 1680  
 ctccacaccc gcttcaacca gacggccacg gccacgggca ggctaagtag ctccgatccc  
 1740  
 aacctccaga acatccccgt ccgcaccccg cttgggcaga ggatccgccg ggccttcac  
 1800  
 gccgaggagg ggtggctatt ggtggccctg gactatagcc agatagagct caggggtgctg  
 1860  
 gccacctct ccggcgacga gaacctgac cgggtcttcc aggagggcg ggacatccac  
 1920  
 acggagaccg ccagctggat gttcggcgtc ccccgaggagg ccgtggaccc cctgatgcgc  
 1980  
 cgggcccga agaccatcaa cttcggggtc ctctacggca tgcggccca ccgcctctcc  
 2040  
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 2100  
 ttccccaagg tgcgggcctg gattgagaag accctggagg agggcaggag gcgggggtac  
 2160  
 gtggagacc tcttcggccg ccgccgctac gtgccagacc tagaggcccg ggtgaagagc  
 2220  
 gtgcgggagg cggccgagcg catggccttc aacatgccc tccagggcac cgccgccgac  
 2280  
 ctcatgaagc tggctatggt gaagctcttc ccaggctgg aggaaatggg ggccaggatg  
 2340  
 ctcttcagg tccacaacga gctggctctc gaggcccaa aagagagggc ggaggccgtg  
 2400  
 gcccggtgg ccaaggaggt catggagggg gtgtatccc tggccgtgcc cctggaggtg  
 2460  
 gaggtgggga taggggagga ctggctctcc gccaaaggag accaccacca ccaccac  
 2517

<212> Type : DNA

<211> Length : 2517

SequenceName : 2696

SequenceDescription :

Custom Codon

Sequence Name : 2696

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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 60  
 caccacctgg cctaccgcac cttccacgcc ctgaagggcc tcaccaccag ccgggggggag  
 120  
 ccggtgcagg cgggtctacg cttcgccaag agcctcctca aggccctcaa ggaggacggg  
 180  
 gacgcggtga tcgtggtctt tgacgccaag gccccctcct tccgccacga ggcctacggg  
 240  
 ggggtacaagg cgggcccggc cccacgccg gaggacttcc cccggcaact cgccctcatc  
 300  
 aaggagctgg tggacctcct ggggctggcg cgctcgagg tcccgggcta cgaggcggac  
 360





2220  
 gtgcgggagg cggccgagcg catggccttc aacatgcccg tccagggcac cgccgccgac  
 2280  
 ctcatgaagc tggctatggt gaagctcttc cccaggctgg aggaaatggg ggccaggatg  
 2340  
 ctccttcagg tccacaacga gctggctctc gagggcccaa aagagagggc ggaggccgtg  
 2400  
 gcccggctgg ccaaggaggt catggagggg gtgtatcccc tggccgtgcc cctggaggtg  
 2460  
 gaggtgggga taggggagga ctggctctcc gccaaaggagc accaccacca ccaccac  
 2517

<212> Type : DNA  
 <211> Length : 2517  
 SequenceName : 2697  
 SequenceDescription :

Custom Codon

Sequence Name : 2697

Sequence

<213> OrganismName : Artificial Sequence  
 <400> PreSequenceString :  
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 60  
 caccacctgg cctaccgcac cttccacgcc ctgaagggcc tcaccaccag ccgggggggag  
 120  
 ccggtgcagg cggctctacg cttcgccaag agcctcctca aggccctcaa ggaggacggg  
 180  
 gacgcggtga tcgtggtctt tgacgccaaag gccccctcct tccgccacga ggcttacggg  
 240  
 gggtagaagg cgggcccggc cccacgccg gaggactttc cccggcaact cgccctcatc  
 300  
 aaggagctgg tggacctcct ggggctggcg cgctcagagg tcccgggcta cgaggcggac  
 360  
 gacgtcctgg ccagcctggc caagaaggcg gaaaaggagg gctacgaggt ccgcctcctc  
 420  
 accgccgaca aagaccttta ccagctcctt tccgaccgca tccacgtcct ccaccccag  
 480  
 gggtagctca tcaccccggc ctggcttttg gaaaagtacg gcctgaggcc cgaccagtgg  
 540  
 gccgactacc gggccctgac cggggacgag tccgacaacc ttcccggggg caagggcatc  
 600  
 ggggagaaga cggcgaggaa gcttctggag gagtggggga gcctggaagc ctcctcaag  
 660  
 aacctggacc ggctgaagcc cgccatccgg gagaagatcc tggcccacat ggacgatctg  
 720  
 aagctctcct gggacctggc caaggtgcgc accgacctgc ccctggaggt ggacttcgac  
 780  
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 840  
 agcctcctcc acgagttcgg cttcttgga agccccaagg ccctggagga ggccccctgg  
 900  
 ccccgcggg aaggggcctt cgtgggcttt gtgctttccc gcaaggagcc catgtgggac  
 960  
 gatcttctgg ccctggccgc cgccaggggc ggccgcgtgc accgggcagc agacccttg  
 1020  
 gcggggctaa aggacctcaa ggaggtccgg ggcctcctcg ccaaggacct cgccgtcttg  
 1080

10034339.022000

```

gcctcgaggg aggggctaga cctcgtgccc ggggacgacc ccatgctcct cgccctacctc
1140
ctggggccct cgaacaccac ccccgagggg gtggcgcggc gctacggggg ggagtggacg
1200
gaggacgccc cccaccgggc cctcctctcg gagaggctcc atcggaacct ccttaagcgc
1260
ctcgaggggg aggagaagct cctttggctc taccacgagg tggaaaagcc cctctcccgg
1320
gtcctggccc atatggaggc cacgggggtg cgcctggacg tggcctatct cagggccttg
1380
tccctggagg tggccgagga gatcgcccg ctcgaggccg aggtcttccg cctggccggc
1440
cacccttca acctcaactc ccgggaccag ctggaaaggg tcctctttga cgagctaggg
1500
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1740
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1800
gccgaggagg ggtggctatt ggtggccctg gactatagcc agatagagct caggggtgctg
1860
gccacctct ccggcgacga gaacctgatc cgggtcttcc aggagggggc ggacatccac
1920
acggagaccg ccagctggat gttcggcgtc cccggggagg ccgtggaccc cctgatgcgc
1980
cgggcccga agaccatcaa cttcggggtc ctctacggca tgcggccca ccgcctctcc
2040
caggagctag ccatccctta cgaggaggcc caggccttca ttgagcgcta ctttcagagc
2100
ttccccaagg tgcgggcctg gattgagaag accctggagg agggcaggag gcgggggtac
2160
gtggagacc tcttcggccg ccgcccgtac gtgccagacc tagaggcccg ggtgaagagc
2220
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2280
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2340
ctccttcagg tccacaacga gctggctctc gaggcccca aagagagggc ggaggccgtg
2400
gcccggtgg ccaaggaggt catggagggg gtgtatcccc tggccgtgcc cctggaggtg
2460
gaggtgggga taggggagga ctggctctcc gccaaaggag accaccacca ccaccac
2517

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<212> Type : DNA
<211> Length : 2517
      SequenceName : 2698
      SequenceDescription :

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Custom Codon

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Sequence Name : 2698

Sequence

-----

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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60  
ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
120  
gaaccggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggccct gaaggaggac  
180  
gggtacaagg ccgtcttcgt ggtctttgac gccaaagccc cctccttcg ccacgaggcc  
240  
tacgaggcct acaaggcggg gagggccccg acccccagag acttcccccg gcagctcgcc  
300  
ctcatcaagg agctggtgga cctcctgggg ttaccgcg ccgaggtccc cggctacgag  
360  
gcggacgacg ttctcgccac cctggccaag aaggcggaaa aggaggggta cgaggtgcgc  
420  
atcctcaccg ccgaccgcga cctctaccaa ctctctccg accgcgtcgc cgtcctccac  
480  
cccgagggcc acctcatcac cccggagtgg ctttgggaga agtacggcct caggccggag  
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840  
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900  
gccccctggc ccccgccgga aggggccttc gtgggcttcg tcctctcccg ccccgagccc  
960  
atgtgggcgg agcttaaagc cctggccgcc tgcagggacg gccgggtgca ccgggcagca  
1020  
gacccttgg cggggctaaa ggacctcaag gaggtccggg gcctcctcgc caaggacctc  
1080  
gccgtcttgg cctcgaggga ggggctagac ctctgcccc gggacgacct catgctcctc  
1140  
gcctacctcc tgggccccctc gaacaccacc cccgaggggg tggcgcgggc ctacgggggg  
1200  
gagtggacgg aggacgccgc ccaccgggcc ctctctcgg agaggctcca tcggaacctc  
1260  
cttaagcgcc tcgaggggga ggagaagctc ctttggctct accacgaggt ggaaaagccc  
1320  
ctctcccggg tcctggccca tatggaggcc accggggtac ggctggacgt ggcctacctt  
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1440  
ttggcgggcc accccttcaa cctcaactcc cgggaccagc tggaaagggg gctctttgac  
1500  
gagcttaggc ttccgcctt ggggaagacg caaaagacag gcaagcgctc caccagcgcc  
1560  
gcggtgctgg aggccttacg ggaggccac cccatcgtgg agaagatcct ccagcaccgg  
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gagctcacca agctcaagaa cacctacgtg gacccctcc caagcctcgt ccaccgagg  
1680  
acgggcccgc tccacaccg cttcaaccag acggccacgg ccacggggag gcttagtagc  
1740  
tccgaccca acctgcagaa catccccgtc cgcacccctt tgggcccagag gatccgcgg  
1800

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gccttcgtgg ccgagggcggg ttgggcgttg gtggccctgg actatagcca gatagagctc
1860
cgcgctcctcg cccacctctc cggggacgaa aacctgatca gggctctcca ggaggggaag
1920
gacatcgcca cccagaccgc aagctggatg ttcggcgtcc ccccgagggc cgtggacccc
1980
ctgatgcgcc gggcgcccaa gacgggtgaac ttcggcgtcc tctacggcat gtccgcccac
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aggctctccc aggagcttgc catcccctac gaggaggcgg tggcctttat agagcgctac
2100
ttccaaagct tcccgaaggt gcgggccttg atagaaaaga ccctggagga ggggaggaag
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2220
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2280
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2340
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2400
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2520
caccac
2526
<212> Type : DNA
<211> Length : 2526
      SequenceName : 2699
      SequenceDescription :

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Custom Codon

Sequence Name : 2699

Sequence

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<213> OrganismName : Artificial Sequence
<400> PreSequenceString :
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ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc
120
gaaccggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggccct gaaggaggac
180
gggtacaagg ccgtcttcgt ggtctttgac gccaaggccc cctccttcgg ccacgaggcc
240
tacgaggcct acaaggcggg gagggccccg acccccaggg acttcccccg gcagctcgcc
300
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360
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420
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480
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540
cagtgggtgg acttccgcgc cctcgtgggg gaccctccg acaacctccc cggggtaag
600
ggcatcgggg agaagaccgc cctcaagctc ctcaaggagt ggggaagcct ggaaaacctc
660

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ctcaagaacc tggaccgggt aaagccagaa aacgtccggg agaagatcaa ggcccacctg  
 720  
 gaagacctca ggctctcctt ggagctctcc cgggtgcgca ccgacctccc cctggagggtg  
 780  
 gacctcgccc aggggcgga gcccgaccgg gaggggctta gggccttcct ggagaggctg  
 840  
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 900  
 gcccctggc ccccgccgga aggggccttc gtgggcttcg tcctctccc ccccgagccc  
 960  
 atgtgggagg agcttaaagc cctggccggc tgcaggggag gccgcgtgca ccgggcagca  
 1020  
 gacctccttg cggggctaaa ggacctcaag gaggtccggg gcctcctcgc caaggacctc  
 1080  
 gccgtcttgg cctcgaggga ggggctagac ctctgcccc gggacgacct catgctcctc  
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 1260  
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 1620  
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 1680  
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 1740  
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 1800  
 gccttcgtgg ccgaggcggg ttgggcgttg gtggccctgg actatagcca gatagagctc  
 1860  
 cgcgtcctcg cccacctctc cggggacgaa aacctgatca gggctctcca ggaggggaag  
 1920  
 gacatccaca cccagaccgc aagctggatg ttcggcgtcc ccccgaggc cgtggacccc  
 1980  
 ctgatgcgcc gggcgcccaa gacggtgaac ttcggcgtcc tctacggcat gtccgccc  
 2040  
 aggtctctcc aggagcttgc catcccctac gaggaggcg tggcctttat agagcgctac  
 2100  
 ttccaaagct tccccaaggt gcgggccttg atagaaaaga ccctggagga ggggaggaag  
 2160  
 cggggctacg tggaaaccct ctctggaaga aggcgctacg tgcccgcct caacgcccgg  
 2220  
 gtgaagagcg tcaggaggc cgcggaggcc atggccttca acatgcccgt ccagggcacc  
 2280  
 gccgcccacc tcatgaagct cgccatggtg aagctcttcc cccgcctccg ggagatgggg  
 2340  
 gcccgcatgc tcctccaggt ccacaacgag ctctccttg agggccccc agcgggggcc  
 2400  
 gaggagggtg cggtcttggc caaggaggcc atggagaagg cctatcccct cgccgtgccc  
 2460  
 ctggagggtg aggtggggat gggggaggac tggtcttccg ccaagggtca ccaccaccac

2520  
caccac  
2526  
<212> Type : DNA  
<211> Length : 2526  
SequenceName : 2700  
SequenceDescription :

Custom Codon

-----  
Sequence Name : 2700

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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60  
ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
120  
gaaccggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggccct gaaggaggac  
180  
gggtacaagg ccgtcttcgt ggtctttgac gccaaaggccc cctccttcg ccacgaggcc  
240  
tacgaggcct acaaggcggg gagggccccg acccccgagg acttccccg gcagctcgcc  
300  
ctcatcaagg agctggtgga cctcctgggg tttaccgcc tcgaggctcc cggctacgag  
360  
gcggacgacg ttctcgccac cctggccaag aaggcggaaa aggaggggta cgagggtgcg  
420  
atcctcaccg ccgaccgca cctctaccaa ctcgctctcc accgcgtcgc cgtcctccac  
480  
ccgagggcc acctcatcac cccggagtgg ctttgggaga agtacggcct caggccggag  
540  
cagtgggtgg acttccgcgc cctcgtgggg gaccctccg acaacctccc cggggtcaag  
600  
ggcatcgggg agaagaccgc cctcaagctc ctcaaggagt ggggaagcct ggaaaacctc  
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780  
gacctcgccc aggggcggga gcccagccgg gaggggctta gggccttcct ggagaggctg  
840  
gagttcggca gcctcctcca cgagttcggc ctcttgagg ccccgcccc cctggaggag  
900  
gccccctggc ccccgccgga aggggccttc gtgggcttcg tcctctcccg ccccgagccc  
960  
atgtgggcgg agcttaaagc cctggccgcc tgcaggggcg gccgcgtgca ccgggcagca  
1020  
gacccttgg cggggctaaa ggacctcaag gaggtccggg gcctcctcgc caaggacctc  
1080  
gccgtcttgg cctcgaggga ggggctagac ctcgtgcccc gggacgacct catgctcctc  
1140  
gcctacctcc tgggccccctc gaacaccacc cccgaggggg tggcgcgggc ctacgggggg  
1200  
gagtggacgg aggacgcgc ccaccgggcc ctctctcgg agaggctcca tcggaacctc  
1260  
cttaagcgcc tcgaggggga ggagaagctc ctttggctct accacgaggt ggaaaagccc  
1320  
ctctcccggg tcctggccca tatggaggcc accggggtac ggctggacgt ggcctacctt

1380  
caggcccttt ccctggagct tgcggaggag atccgccgcc tcgaggagga ggtcttccgc  
1440  
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1560  
gcggtgctgg aggccctacg ggaggccac cccatcgtgg agaagatcct ccagcaccgg  
1620  
gagctcacca agctcaagaa cacctacgtg gacccctcc caagcctcgt ccacccgagg  
1680  
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1740  
tccgacccca acctgcagaa catccccgtc cgcacccct tgggccagag gatccgccgg  
1800  
gccttcgtgg ccgaggcggg ttgggcgttg gtggccctgg actatagcca gatagagctc  
1860  
cgcgtcctcg cccacctctc cggggacgaa aacctgatca gggctctcca ggagggaag  
1920  
gacatccaca cccagaccgc aagctggatg ttcggcgctc ccccgagggc cgtggacccc  
1980  
ctgatgcgcc gggcggccaa gacggtgaac ttcggcgctc tctacggcat gtccgccc  
2040  
aggctctccc aggagcttgc catcccctac gaggaggcgg tggcctttat agagcgctac  
2100  
ttccaaagct tcccaaaggt gcgggcctgg atagaaaaga ccctggagga ggggaggaag  
2160  
cggggctacg tggaaaccct cttcggaaga aggcgctacg tgcccgacct caacgcccg  
2220  
gtgaagagcg tcaggagggc cgcgagcgc atggccttca acatgcccgt ccagggcacc  
2280  
gccgccgacc tcatgaagct cgccatggtg aagctcttcc cccgcctccg ggagatgggg  
2340  
gcccgcacgc tcctccaggt cgccaacgag ctctcctgg agggcccca agcgcggggc  
2400  
gaggaggtgg cggctttggc caaggaggcc atggagaagg cctatcccct cgccgtgccc  
2460  
ctggaggtgg aggtggggat gggggaggac tggctttccg ccaagggtca ccaccaccac  
2520  
caccac  
2526  
<212> Type : DNA  
<211> Length : 2526  
SequenceName : 2701  
SequenceDescription :

# Custom Codon

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Sequence Name : 2701

## Sequence

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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
120  
gaaccggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggccct gaaggaggac  
180  
gggtacaagg ccgtcttcgt ggtctttgac gccaaaggccc cctccttcog ccacgaggcc



240  
 tacgaggcct acaaggcgagg gagggcccccg acccccgagg acttcccccg gcagctcgcc  
 300  
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 360  
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 420  
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 480  
 cccgagggcc acctcatcac cccggagtgg ctttgggaga agtacggcct caggccggag  
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 660  
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 720  
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 780  
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 840  
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 1080  
 gccgtcttgg cctcgaggga ggggctagac ctctgcccc gggacgacct catgctcctc  
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 1260  
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 1380  
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 1560  
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 1620  
 gagctcacca agctcaagaa cacctacgtg gacccccctc caagcctcgt ccaccgagg  
 1680  
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 1740  
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 1800  
 gccttcgtgg ccgaggcggg ttgggcgttg gtggccctgg actatagcca gatagagctc  
 1860  
 cgcgtcctcg cccacctctc cggggacgaa aacctgatca gggctctcca ggaggggaag  
 1920  
 gacatccaca cccagaccgc aagctggatg ttcggcgctc ccccgagggc cgtggacccc  
 1980  
 ctgatgcgcc gggcgggcaa gacggtgaac ttcggcgctc tctacggcat gtccgccc  
 2040

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aggctctccc aggagcttgc catcccctac gaggaggcgg tggcctttat agagcgctac
2100
ttccaaagct tccccaaagt gcgggcctgg atagaaaaga ccctggagga ggggaggaag
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2220
gtgaagagcg tcaggagggc cgcggagcgc atggccttca acatgcccgt ccagggcacc
2280
gccgccgacc tcatgaagct cgccatggtg aagctcttcc cccgcctccg ggagatgggg
2340
gcccgcatgc tcctccaggt cgccaacgag ctctctctgg aggcccccca agcgcggggc
2400
gaggaggtgg cggctttggc caaggaggcc atggagaagg cctatcccct cgccgtgccc
2460
ctggaggtgg aggtggggat gggggaggac tggctttccg ccaagggtca ccaccaccac
2520
caccac
2526

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<212> Type : DNA

<211> Length : 2526

SequenceName : 2702

SequenceDescription :

Custom Codon

Sequence Name : 2702

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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120
gaaccggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggccct gaaggaggac
180
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840
gagttcgga gcctcctcca cgagttcggc ctcttgagg cccccgcccc cctggaggag
900

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gccccctggc ccccgccgga aggggccttc gtgggcttcg tcctctcccg ccccgagccc
960
atgtgggcgg agcttaaagc cctggccgcc tgcaggggcg gccgcgtgca ccgggcagca
1020
gaccccttgg cggggctaaa ggacctcaag gaggtccggg gcctcctcgc caaggacctc
1080
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1140
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1200
gagtggacgg aggacgccgc ccaccgggcc ctctctcggg agaggctcca tcggaacctc
1260
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1320
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1680
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1800
gccttcgtgg ccgaggcggg ttgggcgttg gtggccctgg actatagcca gatagagctc
1860
cgcgtcctcg cccacctctc cggggacgaa aacctgatca gggctctcca ggaggggaag
1920
gacatccaca ccagaccgc aagctggatg ttcggcgctc ccccgaggc cgtggacccc
1980
ctgatgcgcc gggcgggcaa gacggtgaac ttcggcgctc tctacggcat gtccgccccat
2040
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2100
ttccaaagct tccccaaggt gcgggccttg atagaaaaga ccctggagga ggggaggaag
2160
cggggctacg tggaaaccct cttcggaaga aggcgctacg tgcccgacct caacgcccgg
2220
gtgaagagcg tcagggaggc cgcggagcgc atggccttca acatgcccgt ccagggcacc
2280
gccgccgacc tcatgaagct cgccatggtg aagctcttcc cccgcctccg ggagatgggg
2340
gcccgcctgc tcctccaggt cgccaacgag ctctccttgg agggccccca agcgcgggcc
2400
gaggaggtgg cggcttttgg caaggaggcc atggagaagg cctatcccct cgccgtgccc
2460
ctggaggtgg aggtggggat gggggaggac tggctttccg ccaaggggtca ccaccaccac
2520
caccac
2526
<212> Type : DNA
<211> Length : 2526
      SequenceName : 2703
      SequenceDescription :

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1680  
acggggccgcc tccacacccg cttcaaccag acggccacgg ccacggggag gcttagtagc  
1740  
tccgacccca acctgcagaa catccccgtc cgcacccccct tgggccagag gatccgccgg  
1800  
gccttcgtgg ccgaggcggg ttgggcgttg gtggccctgg actatagcca gatagagctc  
1860  
cgcgtcctcg cccacctctc cggggacgaa aacctgatca gggctctcca ggaggggaag  
1920  
gacatccaca cccagaccgc aagctggatg ttcggcgctc ccccgagggc cgtggacccc  
1980  
ctgatgcgcc gggcggccaa gacggtgaac ttcggcgctc tctacggcat gtccgccc  
2040  
aggctctccc aggagcttgc catcccctac gaggaggcgg tggcctttat agagcgctac  
2100  
ttccaaagct tccccaaggt gcgggcctgg atagaaaaga ccctggagga ggggaggaag  
2160  
cggggctacg tggaaaccct cttcgggaaga aggcgctacg tgcccgacct caacgcccgg  
2220  
gtgaagagcg tcagggaggc cgcggagcgc atggccttca acatgcccgt ccagggcacc  
2280  
gccgccgacc tcatgaagct cgccatggtg aagctcttcc cccgcctccg ggagatgggg  
2340  
gcccgcatgc tcctccaggt cgccaacgag ctctctctgg agggccccca agcgcggggc  
2400  
gaggaggtgg cggctttggc caaggaggcc atggagaagg cctatccctc cgccgtgccc  
2460  
ctggaggtgg aggtggggat gggggaggac tggctttccg ccaagggtca ccaccaccac  
2520  
caccac  
2526  
<212> Type : DNA  
<211> Length : 2526  
SequenceName : 2704  
SequenceDescription :

# Custom Codon

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Sequence Name : 2704

## Sequence

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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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60  
ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
120  
gaaccggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggccct gaaggaggac  
180  
gggtacaagg ccgtcttcgt ggtctttgac gccaaaggccc cctccttcog ccacgaggcc  
240  
tacgaggcct acaaggcggg gagggccccg acccccgagg acttcccccg gcagctcgcc  
300  
ctcatcaagg agctggtgga cctcctgggg ttaccgcc tcgaggtccc cggctacgag  
360  
gcggacgacg ttctcgccac cctggccaag aaggcggaaa aggaggggta cgaggtgcgc  
420  
atcctcaccg ccgaccgca cctctaccaa ctgctctccg accgcgtcgc cgtcctccac

480  
 cccgagggcc acctcatcac cccggagtggt ctttgggaga agtacggcct caggccggag  
 540  
 cagtgggtgg acttccgcgc cctcgtgggg gacccctccg acaacctccc cggggtcaag  
 600  
 ggcacaggg agaagaccgc cctcaagctc ctcaaggagt ggggaagcct ggaaaacctc  
 660  
 ctcaagaacc tggaccgggt aaagccagaa aacgtccggg agaagatcaa ggcccacctg  
 720  
 gaagacctca ggctctcctt ggagctctcc cgggtgcgca ccgacctccc cctggaggtg  
 780  
 gacctcgccc aggggcggga gcccagaccg gaggggctta gggccttctt ggagaggctg  
 840  
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2526
<212> Type : DNA
<211> Length : 2526
      SequenceName : 2705
      SequenceDescription :

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Custom Codon

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Sequence Name : 2705

Sequence

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<213> OrganismName : Artificial Sequence
<400> PreSequenceString :
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1140

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2400
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2517

```

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<212> Type : DNA
<211> Length : 2517
      SequenceName : 2706
      SequenceDescription :

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Custom Codon

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Sequence Name : 2706

Sequence

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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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 1860

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2526
<212> Type : DNA
<211> Length : 2526
      SequenceName : 2707
      SequenceDescription :

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Custom Codon

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Sequence Name : 2707

Sequence

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<213> OrganismName : Artificial Sequence
<400> PreSequenceString :
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660
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720

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<212> Type : DNA  
<211> Length : 2514  
SequenceName : 2708  
SequenceDescription :

Custom Codon

Sequence Name : 2708

Sequence

<213> OrganismName : Thermus thermophilus  
<400> PreSequenceString :  
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 2460  
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<212> Type : DNA  
 <211> Length : 2505  
 SequenceName : 2709  
 SequenceDescription :

#### Custom Codon

Sequence Name : 2709

#### Sequence

<213> OrganismName : Artificial Sequence  
 <400> PreSequenceString :  
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 180  
 WADYRALTGD ESDNLPGVKG IGEKTALKLL KEWGSLEALL KNLDRLKPAI REKILAHMDD  
 240  
 LKLSWDLAKV RTDLPLEVDF AKRREPDRG LKAFLERLEF GSLLHEFGLL GGEKPREEAP  
 300  
 WPPPEGAFVG FVLSRKEPMW ADLLALAACR GGRVHRAADP LAGLKDLEK RGLLAKDLAV  
 360

```

LASREGLDLV PGDDPMLLAY LLGPSNTTPE GVARRYGGEW TEDAAHRALL SERLHRNLLK
420
RLEGEEKLLW LYHEVEKPLS RVLAHMEATG VRLDVAYLQA LSLELAEER RLEEEVFRLA
480
GHPFNLNSRD QLERVLFDEL RLPALKKTKK TGKRSTSAAV LEALREAHPI VEKILQHREL
540
TKLKNTYVDP LPSLVHPRTG RLHTRFNQTA TATGRLSSSD PNLQNIPVRT PLGQRIRRAF
600
VAEAGWALVA LDYSQIELRV LAHLSGDENL IRVFQEGKDI HTQTASWMFG VPPEAVDPLM
660
RRAAKTVNFG VLYGMSAHLR SQELAIPYEE AVAFIERYFQ SFPKVRWIE KTLLEGRKRG
720
YVETLFGRRR YVPDLNARVK SVREAAERMA FNMPVQGTAA DLMKLMVKL FPRLEMGAR
780
MLLQVANELL LEAPQARAE VAALAKEAME KAYPLAVPLE VEVGMGEDWL SAKGHHHHHH
840

```

```

<212> Type : PRT
<211> Length : 840
      SequenceName : 2710
      SequenceDescription :

```

# Sequence

```

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<213> OrganismName : Artificial Sequence
<400> PreSequenceString :
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ggccaccacc tggcctaccg tacctttttt gccctgaagg gcctcaccac cagccggggg
120
gagccggtcc aggcggtgta cgggtttgcc aagagccttt tgaaggcgct aagagaagac
180
ggggacgcgg tgatcgtggt ctttgacgcc gaggccccct cttccgcca cgaggcctac
240
ggggggtaca aggcggggcg ggctcccacc cccgaggact ttccccggca gcttgccctt
300
atcaaggagc tgggtggacct cctgggggtt acccgctcgc aggtccccgc ctacgaggcg
360
gacgacgttc tcgccaccct ggccaagaag gcggaaaagg aggggtacga ggtgcgcac
420
ctcaccgccc acaaagacct ttaccagctc ctttccgacc gcatccacgt cctccacccc
480
gaggggtacc tcatcacccc ggcttggtt tgggaaaagt acggcctgag gcccgaccag
540
tgggccgact accgggccct gaccggggac gaggccgaca accttcccg ggtcaagggc
600
atcggggaga agaccgccct caagctctc aaggagtggg ggagcctgga agcctcctc
660
aagaacctgg accggctgaa gcccgccatc cgggagaaga tcctggcca catggacgat
720
ctgaagctct cctgggacct ggccaagggt cgcaccgacc tgccctgga ggtggacttc
780
gcaaaaaggc gggagcccga cggggagggg cttaaggcct ttttgagag gctggagttc
840
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900
tggccccgc cggaaggggc cttcgtgggc tttgtgcttt cccgcaagga gcccatgtgg
960
gccgatcttc tggccctggc cgcctgcagg ggcggccgcg tgcaccgggc agcagacccc
1020
ttggcggggc taaaggacct caaggaggtc cggggcctcc tcgccaagga cctcgccgtc

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<213> OrganismName : Thermus thermophilus  
 <400> PreSequenceString :  
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 60  
 GYKAVFVVD AKAPSFRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
 120  
 ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
 180  
 QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
 240  
 EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
 300  
 APWPPPEGAF VGFVLSRPEP MWAELKALAA CRDGRVHRAA DPLAGLKDLK EVRGLLAKDL  
 360  
 AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
 420  
 LKRLEGEEKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
 480  
 LAGHPFNLNS RDQLERVLFD ELRLPALGKT QKTGKRSTSA AVLEALREAH PIVEKILQHR  
 540  
 ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNIPV RTPLGQRIRR  
 600  
 AFVAEAGWAL VALDYSQIEL RVLAHLSGDE NLIRVFQEGK DIHTQTASWM FGVPPPEAVDP  
 660  
 LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSF PKVRAW IEKTLEEGRK  
 720  
 RGYVETLFRG RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPR LREM  
 780  
 ARMLLQVHDE LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKG  
 836

<212> Type : PRT  
 <211> Length : 836  
 SequenceName : 2712  
 SequenceDescription :

# Sequence

-----  
 <213> OrganismName : Thermus thermophilus  
 <400> PreSequenceString :  
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 ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
 120  
 gaaccggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggccct gaaggaggac  
 180  
 gggtaacaagg ccgtcttcgt ggtctttgac gccaaaggccc cctccttccg ccacgaggcc  
 240  
 tacgaggcct acaaggcggg gagggccccg acccccgagg acttcccccg gcagctcgcc  
 300  
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 360  
 gcggacgacg ttctcgccac cctggccaag aaggcggaaa aggaggggta cgaggtgcgc  
 420  
 atcctcaccg ccgaccgcga cctctaccaa ctcgctctccg accgcgtcgc cgtcctccac  
 480  
 cccgagggcc acctcatcac cccggagtgg ctttgggaga agtacggcct caggccggag  
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 600  
 ggcacgggg agaagaccgc cctcaagctc ctcaaggagt ggggaagcct ggaaaacctc



660  
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720  
gaagacctca ggctctcctt ggagctctcc cgggtgcgca ccgacctccc cctggagggtg  
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1200  
gagtggacgg aggacgccc ccaccggggc ctctctcgg agaggctcca tcggaacctc  
1260  
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1920  
gacatccaca cccagaccgc aagctggatg ttcggcgtcc ccccgaggc cgtggacccc  
1980  
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2160  
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2220  
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2280  
gccgcccacc tcatgaagct cgccatggtg aagctcttcc cccgcctccg ggagatgggg  
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2400  
gaggaggtgg cggctttggc caaggaggcc atggagaagg cctatcccct cgccgtgccc  
2460

ctggagggtgg aggtggggat gggggaggac tggctttccg ccaagggtta g  
2511

<212> Type : DNA  
<211> Length : 2511  
SequenceName : 2713  
SequenceDescription :

Custom Codon

Sequence Name : 2713

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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GYKAVFVVD AKAPSF RHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAE LKALAA CRDGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDA AHRA LLSERLHRNL  
420  
LKRLEGE EKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLS RDQLERVLFD ELRLPALGKT QKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNIPV RTPLGQRIRR  
600  
AFVAEAGWAL VALDYSQIEL RVL AHLSGDE NLIRVFQEGK DIHTQTASWM FGVPPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFPKVRW IEKTL EEGRK  
720  
RGYVETLFGR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPR LREM G  
780  
ARMLLQVHNE LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKG  
836

<212> Type : PRT  
<211> Length : 836  
SequenceName : 2714  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
atgaattccg aggcgatgct tccgctcttt gaacccaaag gccgggtcct cctggtggac  
60  
ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
120  
gaaccggtgc aggcggtcta cggtctcgcc aagagcctcc tcaaggcct gaaggaggac  
180  
gggtacaagg ccgtcttcgt ggtctttgac gccaaaggccc cctccttcg ccacgaggcc

240  
 tacgaggcct acaaggcggg gagggccccg acccccgagg acttcccccg gcagctcgcc  
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 420  
 atcctcaccg ccgaccgcga cctctaccaa ctcggtctccg accgcgtcgc cgtcctccac  
 480  
 cccgaggggc acctcatcac cccggagtgg ctttgggaga agtacggcct caggccggag  
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 cagtgggtgg acttccgcgc cctcgtggggg gaccctccg acaacctccc cgggggtcaag  
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 ggcatcgggg agaagaccgc cctcaagctc ctcaaggagt ggggaagcct ggaaaacctc  
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 900  
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 960  
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 1200  
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 1260  
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 1320  
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 1380  
 caggcccttt ccctggagct tgcggaggag atccgccgcc tcgaggagga ggtcttccgc  
 1440  
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 gccttcgtgg ccgaggcggg ttgggcgttg gtggccctgg actatagcca gatagagctc  
 1860  
 cgcgtcctcg cccacctctc cggggacgaa aacctgatca gggctctcca ggaggggaag  
 1920  
 gacatccaca cccagaccgc aagctggatg ttggcgctcc ccccgagggc cgtggacccc  
 1980  
 ctgatgcgcc gggcgcccaa gacggtgaac ttggcgctcc tctacggcat gtccgcccat  
 2040



960  
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 1020  
 gaccccttgg cggggctaaa ggacctcaag gaggtccggg gcctcctcgc caaggacctc  
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 1200  
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 1260  
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 1320  
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 1380  
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 1800  
 gccttcgtgg ccgaggcggg ttgggcgttg gtggcccttg actatagcca gatagagtc  
 1860  
 cgcgtcctcg cccacctctc cggggacgaa aacctgatca gggctctcca ggaggggaag  
 1920  
 gacatccaca ccagaccgc aagctggatg ttcggcgtcc ccccgaggc cgtggacccc  
 1980  
 ctgatgcgcc gggcgcccaa gacggtgaac ttcggcgtcc tctacggcat gtccgccc  
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 2280  
 gccgcccacc tcatgaagc cgccatggtg aagctcttcc cccgcctccg ggagatgggg  
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 2460  
 ctggaggtgg aggtggggat gggggaggac tggctttccg ccaagggtca ccaccaccac  
 2520  
 caccac  
 2526

<212> Type : DNA

<211> Length : 2526

SequenceName : 2716

SequenceDescription :

Custom Codon

-----  
Sequence Name : 2716

Sequence  
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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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60  
GYKAVFVVD AKAPSRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPQVK GIGKLTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAELKALAA CRDGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGEKKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLS RDQLERVLFD ELRLPALGKT QKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNPV RTPLGQRIRR  
600  
AFVAEAGWAL VALDYSQIEL RVLHLGSGDE NLIRVFQEGK DIHTQTASWM FGVPPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY BEAVAFIER Y FQSF PKVRAW IEKTL EGRK  
720  
RGYVETLFR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPR LREM  
780  
ARMLLQVHNE LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
840  
HH  
842  
<212> Type : PRT  
<211> Length : 842  
SequenceName : 2717  
SequenceDescription :

Sequence  
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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
atgaattccg aggcgatgct tccgctcttt gaacccaaag gccgggtcct cctggtggac  
60  
ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
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gaaccggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggcct gaaggaggac  
180  
gggtacaagg cgtcttcgt ggtctttgac gccaaaggccc cctccttcg ccacgaggcc  
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gcggacgacg ttctcgccac cctggccaag aaggcgaaa aggaggggta cgaggtgcgc  
420  
atcctcaccg ccgaccgca cctctacaa ctgctctccg accgcgtcgc cgtcctccac

480  
 cccgagggcc acctcatcac cccggagtggt ctttgggaga agtacggcct caggccggag  
 540  
 cagtgggtgg acttccgcgc cctcgtgggg gaccctccg acaacctccc cggggtcaag  
 600  
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 660  
 ctcaagaacc tggaccgggt aaagccagaa aacgtccggg agaagatcaa ggcccacctg  
 720  
 gaagacctca ggctctcctt ggagctctcc cgggtgcgca ccgacctccc cctggagggtg  
 780  
 gacctcgccc agggggcggga gcccgaccgg gaggggctta gggccttcct ggagaggctg  
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 960  
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 1080  
 gccgtcttgg cctcgaggga ggggctagac ctcgtgccc gggacgacct catgctctc  
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 1200  
 gaggggacgg aggacggcg ccaccgggccc ctctctcgg agaggctcca tcggaacctc  
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2526  
<212> Type : DNA  
<211> Length : 2526  
SequenceName : 2718  
SequenceDescription :

Custom Codon

Sequence Name : 2718

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
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300  
APWPPPEGAF VGFVLSRPEP MWAEKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGEEKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLS RDQLERVLFD ELRLPALGKT QKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
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600  
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660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFPKVRW IEKTLEEGRK  
720  
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840  
HH  
842  
<212> Type : PRT  
<211> Length : 842  
SequenceName : 2719  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence



<400> PreSequenceString :

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120
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caccac  
2526  
<212> Type : DNA  
<211> Length : 2526  
SequenceName : 2720  
SequenceDescription :

#### Custom Codon

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Sequence Name : 2720

#### Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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120  
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240  
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gcggacgacg ttctcgccac cctggccaag aaggcggaaa aggaggggta cgaggtgcgc  
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2520  
caccac  
2526  
<212> Type : DNA  
<211> Length : 2526  
SequenceName : 2721  
SequenceDescription :

Custom Codon

-----  
Sequence Name : 2721

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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GYKAVFVVD AKAPSFRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLAGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAEKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
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480  
LAGHPFNLNS RDQLERVLFD ELRLPALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNI PV RTPLGQRIRR  
600  
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660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIER Y FQSFPKVRW IEKTLEEGRK  
720  
RGYVETLFG RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLMV KLFPR LREM  
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840  
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842  
<212> Type : PRT  
<211> Length : 842  
SequenceName : 2722  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
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 2520  
 caccac  
 2526

<212> Type : DNA

<211> Length : 2526

SequenceName : 2723

SequenceDescription :

Custom Codon

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 Sequence Name : 2723

Sequence

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 <213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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 120  
 ADDVLATLAK KAEKEGYEVR ILTADRDLQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
 180  
 QWVDFRALVG DPSDNLKGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
 240  
 EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
 300  
 APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
 360  
 AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
 420  
 LKRLEGEELK LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
 480  
 LAGHPFNLNS RDQLERVLFD ELRLPALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
 540  
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 600  
 AFVAEAGWAL VALDYSQIEL RVLALHSGDE NLIRVFQEGK DIHTQTASWM FGVPPEAVDP  
 660  
 LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIER Y FQSF PKVRAW IEKTL E EGRK  
 720  
 RGYVETLFG RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPR LREM G  
 780  
 ARMLLQVANE L LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
 840  
 HH

842

<212> Type : PRT

<211> Length : 842

SequenceName : 2724

SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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<212> Type : DNA  
<211> Length : 2526  
SequenceName : 2725  
SequenceDescription :

Custom Codon

Sequence Name : 2725

Sequence

<213> OrganismName : Artificial Sequence  
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 <212> Type : PRT  
 <211> Length : 842  
 SequenceName : 2726  
 SequenceDescription :

# Sequence

<213> OrganismName : Artificial Sequence  
 <400> PreSequenceString :  
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<212> Type : DNA

<211> Length : 2526

SequenceName : 2727

SequenceDescription :

Custom Codon

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Sequence Name : 2727

Sequence

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<213> OrganismName : Artificial Sequence
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ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRAVLH PEGHLITPEW LWEKYGLRPE
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QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL
240
EDLRLSLELS RVRTDLLLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE
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APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL
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842
<212> Type : PRT
<211> Length : 842
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# Sequence

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<213> OrganismName : Artificial Sequence
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2526

<212> Type : DNA

<211> Length : 2526

SequenceName : 2729

SequenceDescription :

Custom Codon

Sequence Name : 2729

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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GYKAVFVVD AKAPSFRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120

ADDVLATLAK KAEKEGYEVR ILTADRDLQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180

QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240

EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300

APWPPPEGAF VGYVLSRPEP MWAEKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360

AVLASREGLD LVPGDPMMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420

LKRLEGEEKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
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LAGHPFNLS RDQLERVLF DLRPLALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
540

ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNIPV RTPLGQRIRR  
600

AFVAEAGWAL VALDYSQIEL RVLAHLSGDE NLIRVFQEGK DIHTQTASWM FGVPEAVDP  
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LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFPKVRW IEKTLEEGRK  
720

RGYVETLFGR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPRRLREM  
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ARMLLQVANE LLLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
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842

<212> Type : PRT

<211> Length : 842

SequenceName : 2730

SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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2526  
<212> Type : DNA  
<211> Length : 2526  
SequenceName : 2731  
SequenceDescription :

Custom Codon

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Sequence Name : 2731

Sequence

-----

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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842

<212> Type : PRT  
<211> Length : 842  
SequenceName : 2732  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
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2526

<212> Type : DNA

<211> Length : 2526

SequenceName : 2733

SequenceDescription :

Custom Codon

Sequence Name : 2733

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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120  
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRLSLELS RVHTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLEHFG LLEAPAPLEE  
300

APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
 360  
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 840  
 HH  
 842

<212> Type : PRT  
 <211> Length : 842  
 SequenceName : 2734  
 SequenceDescription :

#### Sequence

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 <213> OrganismName : Artificial Sequence  
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Sequence Name : 2735

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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120  
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
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840  
HH  
842  
<212> Type : PRT  
<211> Length : 842  
SequenceName : 2736  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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<212> Type : DNA

<211> Length : 2508

SequenceName : 2739

SequenceDescription :

Custom Codon

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Sequence Name : 2739

Sequence

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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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240  
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAEKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGVEKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLNS RDQLERVLFD ELRLPALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
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ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNI PV RTPLGQRIRR  
600  
AFVAEAGWAL VALDYSQIEL RVLHLGSGDE NLIRVFQEGK DIHTQTASWM FGVPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIER Y FQSF PKVRAW IEKTLEEGRK  
720  
RGYVETLFGR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLMV KLFPR LREMG  
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ARMLLQVANE LLLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKG  
836



<212> Type : PRT  
<211> Length : 836  
SequenceName : 2740  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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2400
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2508

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<212> Type : DNA

<211> Length : 2508

SequenceName : 2741

SequenceDescription :

Custom Codon

Sequence Name : 2741

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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120
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE
180
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL
240
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE
300
APWPPPEGAF VGFVLSRPEP MWAEKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL
360
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL
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480  
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600  
AFVAEAGWAL VALDYSQIEL RVL AHL SGDE NLIRVFQEGK DIHTQTASWM FGVPPEAVDP  
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LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSPKVRW IEKTLEEGRK  
720  
RGYVETLFGR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLMV KLFPR LREMG  
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836

<212> Type : PRT  
<211> Length : 836  
SequenceName : 2742  
SequenceDescription :

#### Sequence

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<213> OrganismName : Artificial Sequence  
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<212> Type : DNA

<211> Length : 2508

SequenceName : 2743

SequenceDescription :

Custom Codon

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Sequence Name : 2743

Sequence

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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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2508

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<212> Type : DNA

<211> Length : 2508

SequenceName : 2745  
SequenceDescription :

Custom Codon

Sequence Name : 2745

Sequence

<213> OrganismName : Artificial Sequence  
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120  
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180  
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
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AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
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480  
LAGHPFNLS RDQLERVLFD ELRLPFLKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
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RGYVETLFG RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLF PRLREMG  
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836

<212> Type : PRT  
<211> Length : 836  
SequenceName : 2746  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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gaaccggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggcct gaaggaggac  
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2024-09-23 10:23:00







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<400> PreSequenceString :
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2220
gtgaagagcg tcagggaggc cgcgagcgc atggccttca acatgcccgt ccagggcacc
2280
gccgcccacc tcatgaagct cgccatggtg aagctcttcc cccgcctccg ggagatgggg
2340
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2400
gaggaggtgg cggctttggc caaggaggcc atggagaagg cctatcccct cgccgtgccc
2460
ctggaggtgg aggtggggat gggggaggac tggttttccg ccaagggg
2508

```

<212> Type : DNA

<211> Length : 2508

SequenceName : 2749

SequenceDescription :

Custom Codon

Sequence Name : 2749

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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MNSEAMLPLF EPKGRVLLVD GHHLAYRTFF ALKGLTTSRG EPVQAVYGFA KSLKALKED
60
GYKAVFVVD AKAPSFHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE
120
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE
180
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL
240
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE
300
APWPPPEGAF VGFVLSRPEP MWAEKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL
360
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL
420
LKRLEGEKEL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR
480
LAGHPFNLNS RDQLERVLFD ELRLPSLKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR
540
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNI PV RTPLGQRIRR
600
AFVAEAGWAL VALDYSQIEL RVL AHLSGDE NLIRVFQEGK DIHTQTASWM FGVPPEAVDP
660
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIER Y FQSF PKVRAW IEK TLEEGRK
720

```

RGYVETLFGR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPRRLREM  
780  
ARMLLQVANE LLLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKG  
836

<212> Type : PRT  
<211> Length : 836  
SequenceName : 2750  
SequenceDescription :

Sequence

-----  
<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
atgaattccg aggcgatgct tccgctcttt gaaccctaaag gccgggtcct cctggtggac  
60  
ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
120  
gaaccggtgc aggcggtcta cggtctcgcc aagagcctcc tcaaggccct gaaggaggac  
180  
gggtacaagg ccgtcttcgt ggtctttgac gcccaaggccc cctccttcg ccacgaggcc  
240  
tacgaggcct acaaggcggg gagggccccc acccccaggg acttcccccg gcagctcgcc  
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360  
gcggacgacg ttctcgccac cctggccaag aaggcggaaa aggaggggta cgaggtgcgc  
420  
atcctcaccg ccgaccgcga cctctacca ctctctccg accgcgtcgc cgtcctccac  
480  
cccaggggcc acctcatcac cccggagtgg ctttgggaga agtacggcct caggccggag  
540  
cagtgggtgg acttccgcgc cctcgtgggg gacccctccg acaacctccc cggggtcaag  
600  
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900  
gccccctggc ccccgccgga aggggccttc gtgggcttcg tcctctcccg ccccgagccc  
960  
atgtgggagg agcttaaagc cctggccgcc tgcaggggag gccgcgtgca ccgggcagca  
1020  
gacccttgga cgggggctaaa ggacctcaag gaggtccggg gcctcctcgc caaggacctc  
1080  
gccgtcttgg cctcgaggga ggggctagac ctctgcccc gggacgaccc catgctcctc  
1140  
gcctacctcc tggggccctc gaacaccacc cccgaggggg tggcgcgggc ctacgggggg  
1200  
gagtggacgg aggacgccgc ccaccgggcc ctctctcgg agaggctcca tcggaacctc  
1260  
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1320  
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1380  
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10004439:022602

1440  
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 1560  
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 1620  
 gagctcacca agctcaagaa cacctacgtg gacccctcc caagcctcgt ccacccgagg  
 1680  
 acgggccgcc tccacacccg cttcaaccag acggccacgg ccacggggag gcttagtagc  
 1740  
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 1800  
 gccttcgtgg ccgaggcggg ttgggcgttg gtggccctgg actatagcca gatagagctc  
 1860  
 cgcgtcctcg cccacctctc cggggacgaa aacctgatca gggctctcca ggaggggaag  
 1920  
 gacatccaca cccagaccgc aagctggatg ttcggcgctc ccccgaggc cgtggacccc  
 1980  
 ctgatgcgcc gggcggccaa gacggtgaac ttcggcgctc tctacggcat gtccgccccat  
 2040  
 aggctctccc aggagcttgc catcccctac gaggaggcgg tggcctttat agagcgctac  
 2100  
 ttccaaagct tcccaaaggt gcgggcctgg atagaaaaga ccctggagga ggggaggaag  
 2160  
 cggggctacg tggaaaccct cttcggaaga aggcgctacg tgcccgacct caacgcccgg  
 2220  
 gtgaagagcg tcagggaggc cgcggagcgc atggccttca acatgcccgt ccagggcacc  
 2280  
 gccgcccacc tcatgaagct cgccatggtg aagctcttcc cccgcctccg ggagatgggg  
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 2400  
 gaggaggtgg cggctttggc caaggaggcc atggagaagg cctatcccct cgccgtgccc  
 2460  
 ctggaggtgg aggtggggat gggggaggac tggctttccg ccaagggt  
 2508

<212> Type : DNA

<211> Length : 2508

SequenceName : 2751

SequenceDescription :

Custom Codon

Sequence Name : 2751

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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 60  
 GYKAVFVVD AKAPSRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
 120  
 ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWKEYGLRPE  
 180  
 QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
 240  
 EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
 300  
 APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL

```

360
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL
420
LKRLEGEEEKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR
480
LAGHPFNLNS RDQLERVLF D ELRLPALKKT KKTGKRSTGA AVLEALREAH FIVEKILQHR
540
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNIPV RTPLGQRIRR
600
AFVAEAGWAL VALDYSQIEL RVL AHL SGDE NLIRVFQEGK DIHTQTASWM FGV PPEAVDP
660
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSF PKVRAW IEKTLEEGRK
720
RGYVETLFGR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMK LAMV KLF PRLREMG
780
ARMLLQVANE LLLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKG
836

```

```

<212> Type : PRT
<211> Length : 836
      SequenceName : 2752
      SequenceDescription :

```

# Sequence

```

-----
<213> OrganismName : Artificial Sequence
<400> PreSequenceString :
atgaattccg aggcgatgct tccgctcttt gaacccaaag gccgggtcct cctgggtggac
60
ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc
120
gaaccggtgc aggcggtcta cggttcgcc aagagcctcc tcaaggccct gaaggaggac
180
gggtacaagg ccgtcttcgt ggtctttgac gccaaaggccc cctccttcg ccacgaggcc
240
tacgaggcct acaaggcggg gagggccccg acccccgagg acttccccg gcagctcgcc
300
ctcatcaagg agctggtgga cctcctgggg tttaccgcc tcgaggtccc cggctacgag
360
gcggacgacg ttctcgccac cctggccaag aaggcggaaa aggaggggta cgaggtgcgc
420
atcctcaccg ccgaccgca cctctaccaa ctctctccg accgcgtcgc cgtcctccac
480
cccgagggcc acctcatcac cccggagtgg ctttgggaga agtacggcct caggccggag
540
cagtgggtgg acttcgcgc cctcgtgggg gaccctccg acaacctccc cggggtcaag
600
ggcatcgggg agaagaccgc cctcaagctc ctcaaggagt ggggaagcct ggaaaacctc
660
ctcaagaacc tggaccgggt aaagccagaa aacgtccggg agaagatcaa ggcccacctg
720
gaagacctca ggctctcctt ggagctctcc cgggtgcgca ccgacctccc cctggagggtg
780
gacctcgccc aggggaggga gcccgaccgg gaggggctta gggccttcct ggagaggctg
840
gagttcggca gcctcctcca cgagttcggc ctcttgagg ccccgcccc cctggaggag
900
gccccctggc ccccgccgga aggggccttc gtgggcttcg tcctctccc ccccgagccc
960
atgtgggcgg agcttaaagc cctggccgcc tgcaggggag gccgcgtgca ccgggcagca
1020

```

gaccccttgg	cggggctaaa	ggacctcaag	gaggtccggg	gcctcctcgc	caaggacctc
1080					
gccgtcttgg	cctcgaggga	ggggctagac	ctcgtgcccg	gggacgacct	catgctcctc
1140					
gcctacctcc	tgggccccctc	gaacaccacc	cccgaggggg	tggcgcgggc	ctacgggggg
1200					
gagtggagcg	aggacgccgc	ccaccggggc	ctcctctcgg	agaggctcca	tcggaacctc
1260					
cttaagcgcc	tcgaggggga	ggagaagctc	ctttggctct	accacgaggt	ggaaaagccc
1320					
ctctcccggg	tcctggccca	tatggaggcc	accgggggtac	ggctggacgt	ggcctacctt
1380					
caggcccttt	ccctggagct	tgcgaggagg	atccgccgcc	tcgaggagga	ggtcttccgc
1440					
ttggcgggcc	accccttcaa	cctcaactcc	cgggaccagc	tggaaagggg	gctctttgac
1500					
gagcttaggc	ttccgcctt	gaagaagacg	aagaagacag	gcaagcgctc	caccagctta
1560					
gcggtgctgg	aggccctacg	ggaggcccac	cccatcgtgg	agaagatcct	ccagcaccgg
1620					
gagctcacca	agctcaagaa	cacctacgtg	gacccctcc	caagcctcgt	ccaccgagg
1680					
acgggccgcc	tccacacccg	cttcaaccag	acggccacgg	ccacggggag	gcttagtagc
1740					
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1800					
gccttcgtgg	ccgaggcggg	ttgggcgttg	gtggccctgg	actatagcca	gatagagctc
1860					
cgcgctctcg	cccacctctc	cggggacgaa	aacctgatca	gggtcttcca	ggaggggaag
1920					
gacatccaca	cccagaccgc	aagctggatg	ttcggcgtcc	ccccggaggc	cgtggacccc
1980					
ctgatgcgcc	gggcggccaa	gacggtgaac	ttcggcgtcc	tctacggcat	gtccgcccat
2040					
aggctctccc	aggagcttgc	catcccctac	gaggaggcgg	tggcctttat	agagcgctac
2100					
ttccaaagct	tccccaaagg	gcgggcctgg	atagaaaaga	ccctggagga	ggggaggaag
2160					
cggggctacg	tggaaaccct	cttcggaaga	aggcgctacg	tgcccgacct	caacgcccgg
2220					
gtgaagagcg	tcagggaggc	cgcggagcgc	atggccttca	acatgcccg	ccagggcacc
2280					
gccgcccacc	tcataaagct	cgccatggtg	aagctcttcc	ccgcctccg	ggagatgggg
2340					
gcccgcacgc	tcctccaggt	cgccaacgag	ctcctcctgg	aggcccccca	agcgcgggcc
2400					
gaggaggtgg	cggctttggc	caaggaggcc	atggagaagg	cctatcccct	cgccgtgccc
2460					
ctggaggtgg	aggtggggat	gggggaggac	tggctttccg	ccaagggt	

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<212> Type : DNA
<211> Length : 2508
      SequenceName : 2753
      SequenceDescription :
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<213> OrganismName : Artificial Sequence  
 <400> PreSequenceString :  
 MNSEAMLPLF EPKGRVLLVD GHHLAYRTFF ALKGLTTSRG EPVQAVYGFA KSLKALKED  
 60  
 GYKAVFVVD AKAPSRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
 120  
 ADDVLATLAK KAEKEGYEVR ILTADRDLQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
 180  
 QWVDFRALVG DPSNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
 240  
 EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
 300  
 APWPPPEGAF VGFVLSRPEP MWAEKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
 360  
 AVLASREGLD LVPGDPMMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
 420  
 LKRLEGEELK LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
 480  
 LAGHPFNLS RDQLERVLFD ELRLPALKKT KKTGKRSTSL AVLEALREAH PIVEKILQHR  
 540  
 ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNI PV RTPLGQRIRR  
 600  
 AFVAEAGWAL VALDYSQIEL RVLAHLSGDE NLIRVFQEGK DIHTQTASWM FGVPPEAVDP  
 660  
 LMRRAAKTVN FGVLYGMSAH RLSQELAIPY BEAVAFIER Y FQSF PKVRAW IEK TLEEGRK  
 720  
 RGYVETLFG RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLMV KLFPR LREMG  
 780  
 ARMLLQVANE LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKG  
 836

<212> Type : PRT  
 <211> Length : 836  
 SequenceName : 2754  
 SequenceDescription :

# Sequence

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 <213> OrganismName : Artificial Sequence  
 <400> PreSequenceString :  
 atgaattccg aggcgatgct tccgctcttt gaacccaaag gccgggtcct cctggtggac  
 60  
 ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
 120  
 gaaccggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggccct gaaggaggac  
 180  
 gggtagaagg cagtcttcgt ggtctttgac gccaaggccc cctccttcg ccacgaggcc  
 240  
 tagaggcct acaaggcggg gagggccccg acccccagg acttccccg gcagctcgcc  
 300  
 ctcatcaagg agctggtgga cctcctgggg tttaccgcc tcgaggtccc cggctacgag  
 360  
 gcggacgacg ttctcgccac cctggccaag aaggcgaaa aggaggggta cgaggtgcgc  
 420  
 atcctcaccg ccgaccgga cctctaccaa ctctctccg accgcgtcgc cgtcctccac  
 480  
 cccgagggcc acctcatcac cccggagtgg ctttgggaga agtacggcct caggccggag  
 540  
 cagtgggtgg acttccgcgc cctcgtgggg gaccctccg acaacctccc cggggtaag  
 600  
 ggcacgggg agaagaccgc cctcaagctc ctcaaggagt ggggaagcct ggaaaacctc



660  
 ctcaagaacc tggaccgggt aaagccagaa aacgtccggg agaagatcaa ggcccacctg  
 720  
 gaagacctca ggctctcctt ggagctctcc cgggtgcgca ccgacctccc cctggagggtg  
 780  
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 900  
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 960  
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 1260  
 cttaagcgcc tcgaggggga ggagaagctc ctttggtct accacgaggt ggaaaagccc  
 1320  
 ctctccggg tcctggccca tatggaggcc accggggtac ggctggacgt ggcctacctt  
 1380  
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 1740  
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 1800  
 gccttcgtgg ccgaggcggg ttgggcgttg gtggccctgg actatagcca gatagagctc  
 1860  
 cgcgtcctc cccacctctc cggggacgaa aacctgatca gggctctcca ggagggaag  
 1920  
 gacatccaca ccagaccgc aagctggatg ttgcgcgtcc ccccgaggc cgtggacccc  
 1980  
 ctgatgcgcc gggcgcccaa gacggtgaac ttgcgcgtcc tctacggcat gtccgccc  
 2040  
 aggtctctcc aggagcttg catcccctac gaggaggcgg tggcctttat agagcgctac  
 2100  
 ttccaaagct tccccaaggt gcgggccttg atagaaaaga ccctggagga ggggaggaag  
 2160  
 cggggctacg tggaaacct cttcggaaga aggcgctac tggccgacct caacgcccgg  
 2220  
 gtgaagagcg tcaggaggc cgcggagcgc atggccttca acatgcccgt ccagggcacc  
 2280  
 gccgcccacc tcatgaagct cgccatggtg aagctcttcc cccgcctccg ggagatgggg  
 2340  
 gcccgcacgc tcctccaggt cgccaacgag ctctccttg agggccccc agcgggggc  
 2400  
 gaggaggtgg cggctttggc caaggaggcc atggagaagg cctatcccc cgccgtgccc  
 2460

ctggaggtgg aggtggggat gggggaggac tggctttccg ccaagggg  
2508

<212> Type : DNA

<211> Length : 2508

SequenceName : 2755

SequenceDescription :

Custom Codon

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Sequence Name : 2755

Sequence

-----

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

MNSEAMLPLF EPKGRVLLVD GHHLAYRTFF ALKGLTTSRG EPVQAVYGFA KSLLKALKED  
60  
GYKAVFVVD AKAPSFRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAEKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGECKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLS RDQLERVLFD ELRLPALKKT KKTGKRSTSR AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNI PV RTPLGQRIRR  
600  
AFVAEAGWAL VALDYSQIEL RVLALSGDE NLIRVFQEGK DIHTQTASWM FGVPPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFPKVRW IEKTLLEGRK  
720  
RGYVETLFGR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPRLEMG  
780  
ARMLLQVANE LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKG  
836

<212> Type : PRT

<211> Length : 836

SequenceName : 2756

SequenceDescription :

Sequence

-----

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

atgaattccg aggcgatgct tccgctcttt gaacccaaag gccgggtcct cctggtggac  
60  
ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
120  
gaaccggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggcct gaaggaggac  
180  
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240

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2508  
<212> Type : DNA  
<211> Length : 2508  
SequenceName : 2757  
SequenceDescription :

Custom Codon

Sequence Name : 2757

Sequence

<213> OrganismName : Artificial Sequence  
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ARMLLQVANE LLEAPQARA BEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKG  
836

<212> Type : PRT  
<211> Length : 836  
SequenceName : 2758  
SequenceDescription :

400429:0200

# Sequence

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<213> OrganismName : Artificial Sequence
<400> PreSequenceString :
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<212> Type : DNA  
<211> Length : 2508  
SequenceName : 2759  
SequenceDescription :

Custom Codon

Sequence Name : 2759

Sequence

<213> OrganismName : Artificial Sequence  
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ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
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APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGEEKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLS RDQLERVLFD ELRLPALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNI PV RTP LGQRIR  
600

AFVAEAGWAL VALDYSQIEL RVLAHLSGDE NLIRVFQEGK DIATQTASWM FGVPPPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFVKVRAW IEKTLEEGRK  
720  
RGYVETLFGR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLMV KLFPRRLREMG  
780  
ARMLLQVANE LLLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKG  
836

<212> Type : PRT  
<211> Length : 836  
SequenceName : 2760  
SequenceDescription :

#### Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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 2508

<212> Type : DNA

<211> Length : 2508

SequenceName : 2761

SequenceDescription :

Custom Codon

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Sequence Name : 2761

Sequence

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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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GYKAVFVVD AKAPSFHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120

ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWKEYGLRPE  
180

QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL



240  
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
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LAGHPFNLNS RDQLERVLFD ELRLPALKKP KKTGKRSTSA AVLEALREAH PIVEKILQHR  
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836

<212> Type : PRT  
<211> Length : 836  
SequenceName : 2762  
SequenceDescription :

#### Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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gacatccaca ccagaccgc aagctggatg ttcggcgtcc ccccgagggc cgtggacccc
1980
ctgatgcgcc gggcgggcaa gacggtgaac ttcggcgtcc tctacggcat gtccgcccac
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2220
gtgaagagcg tcaggaggc cgcgagcgc atggccttca acatgcccggt ccagggcacc
2280
gccgcccacc tcatgaagct cgccatggtg aagctcttcc cccgcctccg ggagatgggg
2340
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2400
gaggaggtgg cggcttttgg caaggaggcc atggagaagg cctatcccct cgccgtgccc
2460
ctggaggtgg aggtggggat gggggaggac tggctttccg ccaaggggtca ccaccaccac
2520
caccac
2526
<212> Type : DNA
<211> Length : 2526
SequenceName : 2763
SequenceDescription :

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Custom Codon

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Sequence Name : 2763

Sequence

-----

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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ctggcctacc gtaccttttt tgccctgaag ggccctacca ccagccgcgg ggagccggtc  
120  
caggcgggtgt acgggtttgc caagagcctt ttgaaggcgc taagggaaga cggggatgtg  
180  
gtgatcgtgg tgtttgacgc caaggccccc tccttccgcc accagacctt cgaggcctac  
240  
aaggcggggc gggctccac ccccgaggac tttccccggc agcttgccct tatcaaggag  
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720  
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900  
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960  
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2160  
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2280  
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2460  
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2514

<212> Type : DNA  
<211> Length : 2514  
SequenceName : 2764  
SequenceDescription :

Custom Codon

Sequence Name : 2764

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
120  
gaaccggtgc aggcggtcta cggttcgcc aagagcctcc tcaaggccct gaaggaggac  
180  
gggtacaagg ccgtcatcgt ggtctttgac gccgaggccc cctccttccg ccacgaggcc  
240  
tacgaggcct acaaggcggg gaggggcccc acccccgagg acttcccccg gcagctcgcc  
300  
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360  
gcggacgacg ttctcgccac cctggccaag aaggcggaaa aggaggggta cgaggtgcgc  
420  
atcctcaccg ccgaccgcca cctctaccaa ctcgctctcc acccgctcgc cgtcctccac  
480

cccgagggcc acctcatcac cccggagtgg ctttgggaga agtatgggct taagccttcc  
 540  
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 600  
 ggcacgcggg agaagacggc ggccaagctg atccgggagt ggggaagcct ggaaaacctt  
 660  
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 720  
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 780  
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 1860  
 cgcgtcctcg ccacctctc cggggacgaa aacctgatca gggctctcca ggaggggaag  
 1920  
 gacatccaca ccagaccgc aagctggatg ttcggcgtcc ccccgagggc cgtggacccc  
 1980  
 ctgatgcgcc gggcgggcaa gacggtgaac ttcggcgtcc tctacggcat gtccgcccac  
 2040  
 aggctctccc aggagcttgc catccccctac gaggagggcg tggcctttat agagcgctac  
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 2160  
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 2220  
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 2280  
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2340  
gcccgcacatgc tcctccaggt cgccaacgag ctctctctgg agggccccca agcgcgggcc  
2400  
gaggaggtgg cggctttggc caaggaggcc atggagaagg cctatcccct cgccgtgccc  
2460  
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2520  
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2526  
<212> Type : DNA  
<211> Length : 2526  
SequenceName : 2765  
SequenceDescription :

Custom Codon

Sequence Name : 2765

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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60  
GYKAVIVVFD AEAPSRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWEKYGLKPS  
180  
QWVDYRALAG DPSDNIPGVK GIGEKTAACL IREWGSLENL LKHLEQVKPA SVREKILSHM  
240  
EDLKLSLELS RVHTDLLLQV DFARRREPDR EGLKAFLERL EFGSLLHEFG LLESPVAAEE  
300  
APWPPPEGAF VGYVLSRPEP MWAEALNALAA AWGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGLDPMML AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGEELK LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEVFR  
480  
LAGHPFNLS RDQLERVLFD ELRLPALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNI PV RTPLGQRIR  
600  
AFVAEAGWAL VALDYSQIEL RVLHLGSGDE NLIRVFQEGK DIHTQTASWM FGVPPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFPKVRW IEKTLLEGRK  
720  
RGYVETLFGR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPRLEMG  
780  
ARMLLQVANE LLLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
840  
HH  
842  
<212> Type : PRT  
<211> Length : 842  
SequenceName : 2766  
SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :

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 ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggg  
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 gaaccggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggccct gaaggaggac  
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 240  
 tacgaggcct acaaggcggg gagggccccg acccccagagg acttcccccg gcagctcgcc  
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 420  
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 480  
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 ggcacgggg agaagaccgc cctcaagctc ctcaaggagt ggggaagcct ggaaaacctc  
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 720  
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 780  
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 840  
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 1680  
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 1740  
 tccgaccca acctgcagaa catccccgtc cgcacccctc tgggcccagag gatccgccg  
 1800  
 gccttcgtgg ccgaggcggg ttgggcgttg gtggccctgg actatagcca gatagagctc





720  
 RGYVETLFGR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPRRLREMG  
 780  
 ARMLLQVANE LLLLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
 840  
 HH  
 842  
 <212> Type : PRT  
 <211> Length : 842  
 SequenceName : 2768  
 SequenceDescription :

Sequence

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 <213> OrganismName : Artificial Sequence  
 <400> PreSequenceString :  
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 ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
 120  
 gaaccggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggccct gaaggaggac  
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 aacctctta agcgctcga gggggaggag aagctccttt ggctctacca cgaggtggaa  
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10084579 - 072500

1380  
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 1980  
 gacccctga tgcgccgggc ggccaagacg gtgaacttcg gcgtcctcta cggcatgtcc  
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 2340  
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 2400  
 cgggcccagg aggtggcggc tttggccaag gaggccatgg agaaggccta tcccctcgcc  
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 2520  
 caccaccacc ac  
 2532  
 <212> Type : DNA  
 <211> Length : 2532  
 SequenceName : 2769  
 SequenceDescription :

Custom Codon

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Sequence Name : 2769

Sequence

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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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 GYKAVIVVFD AEAPSFHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
 120  
 ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRAVLH PEGHLITPEW LWEKYGLRPE  
 180  
 QWVDFRALVG DPSDNLPGVK GIGKLTALKL LKEWGSLENL LKNLDRVKPD SLRRKIEAHL

240  
EDLHLSDLA RIRTDLPLEV DFKALRRRTD DLEGLRAFLE ELEFGSLLHE FGLLGGEKPR  
300  
EEAPWPPPEG AFVGFLLSRK EPMWAELLAL AAASGGRVHR AADPLAGLKD LKEVRGLLAK  
360  
DLAVLASREG LDLVPGDDPM LLAYLLGPSN TTPEGVARRY GGEWTEAAH RALLSERLHR  
420  
NLLKRLEGEE KLLWLYHEVE KPLSRVLAHM EATGVRLDVA YLQALSLELA EEIRRLEEEV  
480  
FRLAGHPFNL NSRDQLERVL FDELRLPALK KTKKTGKRST SAAVLEALRE AHPIVEKILQ  
540  
HRELTKLKNT YVDPLPSLVH PRTGRLHTRF NQTATATGRL SSSDPNLQNI PVRTPLGQRI  
600  
RRAFVAEAGW ALVALDYSQI ELRVLAHLSG DENLIRVFQE GKDIHTQTAS WMFGVPPEAV  
660  
DPLMRRAAKT VNFGVLYGMS AHRLSQELAI PYEEAVAFIE RYFQSFPKVR AWIEKTLEEG  
720  
RKRGYVETLF GRRRYVPDLN ARVKSUREAA ERMAFNMPVQ GTAADLMKLA MVKLFPRLRE  
780  
MGARMLLQVA NELLLEAPQA RAEVAALAK EAMEKAYPLA VPLEVEVGMG EDWLSAKGHH  
840  
HHHH  
844  
<212> Type : PRT  
<211> Length : 844  
SequenceName : 2770  
SequenceDescription :

# Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
atgaattccg aggcgatgct tccgctcttt gaacccaaag gccgggtcct cctggtggac  
60  
ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
120  
gaaccggtgc aggcggtcta cggtctcgcc aagagcctcc tcaaggccct gaaggaggac  
180  
gggtacaagg ccgtcatcgt ggtctttgac gccgaggccc cctccttcg ccacgaggcc  
240  
tacgaggcct acaaggcggg gagggccccg acccccgagg acttccccg gcagctcgcc  
300  
ctcatcaagg agctggtgga cctcctgggg ttaccgcgc tcgaggtccc cggctacgag  
360  
gcggacgacg ttctcgccac cctggccaag aaggcggaag aggaggggta cgaggtgcgc  
420  
atcctcaccg ccgaccgcga cctctaccaa ctcgctctccg accgcgtcgc cgtcctccac  
480  
cccgagggcc acctcatcac cccgaaggac gtccaggaga agtacggggg gccccggag  
540  
cgctgggtgg acttccgcgc cctcacgggg gaccgctcgg acaacatccc cggggtggcg  
600  
gggatagggg agaagaccgc cttcgactc ctgcagagt gggggagcgt ggaaaacctc  
660  
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720  
gaggacctcc acctctcctt agacctggcc cgcacccga ccgacctccc cctggagggtg  
780  
gactttaagg ccctgcgccg caggaccccc gacctggagg gcctgagggc ctttttgag  
840  
gagctggagt tcggaagcct cctccacgag ttcggcctcc tgggagggga gaagccccgg

900	gaggaggccc	cctggccccc	gcccgaagg	gccttogtgg	gttctctct	ttcccgaag
960	gagcccatgt	gggcggagct	tctggccctg	gcggcggcct	cgggcgggccg	cgtgcaccgg
1020	gcagcagacc	ccttggcggg	gctaaaggac	ctcaaggagg	tccggggcct	cctcgccaag
1080	gacctgcgcg	tcttggcctc	gagggagggg	ctagacctcg	tgcccggggga	cgaccccatg
1140	ctcctcgcct	acctcctggg	cccctcgaac	accacccccg	aggggggtggc	gcggcgctac
1200	ggggggggagt	ggacggagga	cgccgcccac	cgggccctcc	tctcggagag	gctccatcgg
1260	aacctcctta	agcgcctcga	gggggaggag	aagctccttt	ggctctacca	cgaggtggaa
1320	aagccctct	cccgggtcct	ggcccatatg	gaggccaccg	gggtacggcg	ggacgtggcc
1380	taccttcagg	ccctttccct	ggagcttgcg	gaggagatcc	gccgcctcga	ggaggaggtc
1440	ttccgcttgg	cgggccaccc	cttcaacctc	aactcccggg	accagctgga	aaggggtgctc
1500	tttgacgagc	ttaggcttcc	cgccttgaag	aagacgaaga	agacaggcaa	gcgctccacc
1560	agcgcgcgcg	tgctggaggc	cctacgggag	gccaccccca	tcgtggagaa	gatcctccag
1620	caccgggagc	tcaccaagct	caagaacacc	tacgtggacc	ccctcccaag	cctcgtccac
1680	ccgaggacgg	gccgcctcca	caccgccttc	aaccagacgg	ccacggccac	ggggaggctt
1740	agtgcctccg	accccaacct	gcagaacatc	cccgtccgca	cccccttggg	ccagaggatc
1800	cgccgggcct	tcgtggccga	ggcgggttgg	gcgttggtgg	ccctggacta	tagccagata
1860	gagctccgcg	tcctcgccca	cctctccggg	gacgaaaacc	tgatcagggg	cttccaggag
1920	gggaaggaca	tccacaccca	gaccgcaagc	tggaagtctg	gcgtcccccc	ggaggccgtg
1980	gaccccctga	tgcgccgggc	ggccaagacg	gtgaacttct	gcgtcctcta	cggcatgtcc
2040	gcccataggc	tctcccagga	gcttgccatc	ccctacgagg	aggcgggtggc	ctttatagag
2100	cgctacttcc	aaagcttccc	caaggtgcgg	gcctggatag	aaaagaccct	ggaggagggg
2160	aggaagcggg	gctacgtgga	aaccctcttc	ggaagaaggc	gctacgtgcc	cgacctcaac
2220	gcccgggtga	agagcgctcag	ggaggccgcg	gagcgcgatg	ccttcaacat	gcccgtccag
2280	ggcacccgcg	ccgacctcat	gaagctcgcc	atggtgaagc	tcttcccccg	cctccggggag
2340	atggggggccc	gcatgctcct	ccaggtcgcc	aacgagctcc	tcctggaggc	cccccaagcg
2400	cgggccgagg	aggtggcggc	tttggccaag	gaggccatgg	agaaggccta	tcccctcgcc
2460	gtgcccctgg	aggtggaggt	ggggatgggg	gaggactggc	tttccgccaa	gggtcaccac
2520	caccaccacc	ac				

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<212> Type : DNA
<211> Length : 2532
      SequenceName : 2771
      SequenceDescription :
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Custom Codon

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Sequence Name : 2771

Sequence

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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

MNSEAMLPLF EPKGRVLLVD GHHLAYRTFF ALKGLTTSRG EPVQAVYGFA KSLLKALKED  
60  
GYKAVIVVFD AEAPSRFHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPKD VQEKYGVPE  
180  
RWVDFRALTG DRSDNIPGVA GIGECTALRL LAEWGSVENL LKNLDRVCPD SLRRKIEAHL  
240  
EDLHLSLDLA RIRTDLPLEV DFKALRRRTP DLEGLRAFLE ELEFGSLLHE FGLLGGEKPR  
300  
EEAPWPPPEG AFVGFLLSRK EPMWAELLAL AAASGGRVHR AADPLAGLKD LKEVRGLLAK  
360  
DLAVLASREG LDLVPGDDPM LLAYLLGPSN TTPEGVARRY GGEWTEAAH RALLSERLHR  
420  
NLLKRLEGEE KLLWLYHEVE KPLSRVLAHM EATGVRLDVA YLQALSLELA EEIRRLEEEV  
480  
FRLAGHPFNL NSRDQLERVL FDELRLPALK KTKKTGKRST SAAVLEALRE AHPIVEKILQ  
540  
HRELTKLKNT YVDPLPSLVH PRTGRLHTRF NQTATATGRL SSSDPNLQNI PVRTPLGQRI  
600  
RRAFVAEAGW ALVALDYSQI ELRVLAHL SG DENLIRVFQE GKDIHTQTAS WMFGVPPEAV  
660  
DPLMRRAKT VNFGVLYGMS AHRLSQELAI PYEEAVAFIE RYFQSFPKVR AWIEKTLEEG  
720  
RKRGYVETLF GRRRYVPDLN ARVKSVEAA ERMAFNMPVQ GTAADLMKLA MVKLFPRLE  
780  
MGARMLLQVA NELLLEAPQA RAE EVAALAK EAMEKAYPLA VPLEVEVGMG EDWLSAKGHH  
840  
HHHH  
844

<212> Type : PRT

<211> Length : 844

SequenceName : 2772

SequenceDescription :

Sequence

-----

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

atgaattccg aggcgatgct tccgctcttt gaacccaaag gccgggtcct cctggtggac  
60  
ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
120  
gaaccggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggcct gaaggaggac  
180  
gggtacaagg ccgtcatcgt ggtctttgac gccgaggccc cctccttcg ccacgaggcc  
240  
tacgaggcct acaaggcggg gagggccccg acccccgagg acttcccccg gcagctcgcc  
300  
ctcatcaagg agctggtgga cctcctgggg ttaccgcc tcgaggtgcc gggctttgaa  
360  
gcggatgacg tcctggctac cctggccaag aaggcggaag aggaaggcta cgaagtgcgc





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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

atgaattccc tgccctctt tgagcccaag ggccgggtgc ttctggtgga cggccaccac  
60  
ctggcctacc gtaccttttt tgccctgaag ggcctcacca ccagccgcgg ggagccggtc  
120  
caggcgggtg acgggtttgc caagagcctt ttgaaggcgc taagggaaga cggggatgtg  
180  
gtgatcgtgg tctttgacgc cgaggccccc tccttcgcgc accagacctt cgaggcctac  
240  
aaggcggggc gggctccccc ccccgaggac tttccccggc agcttgccct tatcaaggag  
300  
atggtggacc ttttgggcct ggagcgcctc gaggtgcggg gctttgaagc ggatgacgtc  
360  
ctggctaccc tggccaagaa ggcggaaaag gaaggctacg aagtgcgcac cctcaccgcg  
420  
gaccgggacc tttaccagct tctttcggag cgaatctcca tccttcaccc ggaggggtac  
480  
ctgatcacc cggagtggct ttgggagaag tacggcctca ggccggagca gtgggtggac  
540  
ttccgcgccc tcgtggggga cccctccgac aacctccccg gggccaaggg catcggggag  
600  
aagaccgccc tcaagctcct caaggagtgg ggaagcctgg aaaacctcct caagaacctg  
660  
gaccgggtaa agccagaaaa cgtccgggag aagatcaagg cccacctgga agacctcagg  
720  
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960  
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1080  
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1200  
gacgcgccc accgggccct cctctcggag aggtccatc ggaacctcct taagcgcctc  
1260  
gagggggagg agaagctcct ttggctctac cacgaggtgg aaaagcccct ctcccggtc  
1320  
ctggcccata tggaggccac cggggtacgg ctggacgtgg cctaccttca ggccctttcc  
1380  
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1440  
cccttcaacc tcaactcccg ggaccagctg gaaagggtgc tctttgacga gcttaggctt  
1500  
cccgccttga agaagacgaa gaagacaggc aagcgtcca ccagcgccgc ggtgctggag  
1560  
gccctacggg agggccaccc catcgtggag aagatcctcc agcaccggga gctcaccaag  
1620  
ctcaagaaca cctacgtgga cccctccca agcctcgtcc acccgaggac gggccgcctc  
1680  
cacaccgct tcaaccagac ggccacggcc acggggaggc ttagtagctc cgaccccaac  
1740





660  
AAKTVNFGVL YGMSAHRLSQ ELAIPYEEAV AFIERYFQSF PKVRAWIEKT LEEGRKRGYV  
720  
ETLFGRRRYV PDLNARVKS V REAAERMAFN MPVQGTADL MKLAMVKLFP RLREMGARML  
780  
LQVANELLLE APQARAE EVA ALAKEAMEKA YPLAVPLEVE VGMGEDWLSA KGH HHHHHH  
838

<212> Type : PRT  
<211> Length : 838  
SequenceName : 2776  
SequenceDescription :

#### Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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60  
ggccaccacc tggcctaccg caccttcttc gccctgaagg gcctcaccac gagccggggc  
120  
gaaccgggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggccct gaaggaggac  
180  
gggtacaagg ccgtcttcgt ggtctttgac gccaaaggccc cctccttcg ccacgaggcc  
240  
tacgaggcct acaaggcggg gagggccccg acccccagag acttccccg gcagctcgcc  
300  
ctcatcaagg agctggtgga cctcctgggg tttaccgcc tgcaggtccc cggctacgag  
360  
gcggacgacg ttctcgccac cctggccaag aaggcggaaa aggaggggta cgaggtgcgc  
420  
atcctcaccg ccgaccgcga cctctaccaa ctcgctctcc accgcgtcgc cgtcctccac  
480  
cccaggggcc acctcatcac cccggagtgg ctttgggaga agtacggcct caggccggag  
540  
cagtgggtgg acttcgcgc cctcgtgggg gacccctccg acaacctccc cggggtcaag  
600  
ggcatcgggg agaagaccgc cctcaagctc ctcaaggagt ggggaagcct ggaaaacctc  
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960  
atgtgggcg agcttaaagc cctggccgcc tgcagggcg gccgcgtgca ccgggcagca  
1020  
gacccttg cggggctaaa ggacctcaag gaggtccggg gcctcctcgc caaggacctc  
1080  
gccgtcttg cctcaggga ggggctagac ctctgcccg gggacgacct catgctcctc  
1140  
gcctacctcc tgggccccctc gaacaccacc cccgaggggg tggcgcgcg ctacgggggg  
1200  
gagtggacgg aggacgccgc ccaccgggcc ctctctcgg agaggctcca tcggaacctc  
1260  
cttaagcgcc tcgaggggga ggagaagctc ctttggtct accacgaggt ggaaaagccc  
1320

ctctcccggg tcctggccca tatggaggcc accgggggtac ggctggacgt ggcctacctt  
 1380  
 caggcccttt ccctggagct tgcggaggag atccgccgcc tcgaggagga ggtcttccgc  
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 1800  
 gccttcgtgg ccgaggcggg ttgggcgttg gtggccctgg actatagcca gatagagctc  
 1860  
 cgcgtcctcg cccacctctc cggggacgaa aacctgatca gggctctcca ggaggggaag  
 1920  
 gacatccaca cccagaccgc aagctggatg ttcggcgctc ccccgagggc cgtggacccc  
 1980  
 ctgatgcgcc gggcggccaa gacggtgaac ttcggcgctc tctacggcat gtccgccc  
 2040  
 aggcctctcc aggagcttgc catcccctac gaggaggcgg tggcctttat agagcgctac  
 2100  
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 2160  
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 2220  
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 2280  
 gccgcccacc tcatgaagct cgccatggtg aagctcttcc cccgcctccg ggagatgggg  
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 2760  
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 cgtaatagcg aagaggcccg caccgatcgc ccttcccaac agttgcgcag cctgaatggc  
 2880  
 gaatgggacg cgccctgtag cggcgcatca agcgcggcgg gtgtggtggt tacgcgcagc  
 2940  
 gtgaccgcta cacttgccag cgccctagcg cccgctcctt tcgctttctt cccttccttt  
 3000  
 ctcgccacgt tcgccggctt tcccgtcaa gctctaaatc gggggctccc ttaggggttc  
 3060  
 cgatttagag ctttacggca cctcgaccgc aaaaaacttg atttgggtga tggttcacgt  
 3120  
 agtgggcat cgccc

3135

<212> Type : DNA

<211> Length : 3135

SequenceName : 2777

SequenceDescription :

Custom Codon

Sequence Name : 2777

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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60  
GYKAVFVVF D AKAPSRHEA YEAYKAGRAP TPEDFPRQLA LIKELVDLLG FTRLEVPGYE  
120  
ADDVLATLAK KAEKEGYEVR ILTADRDLYQ LVSDRVAVLH PEGHLITPEW LWKEYGLRPE  
180  
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDLRLSLELS RVRTDLPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAELKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGECKL LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLS RDQLERVLF D ELRLPALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNI PV RTPLGQRIRR  
600  
AFVAEAGWAL VALDYSQIEL RVL AHL SGDE NLIRVFQEGK DIHTQTASWM FGVPPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFPKVRW IEKTLEEGRK  
720  
RGYVETLFGR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLAMV KLFPRLREMG  
780  
ARMLLQVANE LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
840  
HHVDMTMITP SYLGDTIEYS SYASSLPSS DPLVTAASVL EFCRYPSHWR PLEHASRGPN  
900  
SPYSESYNS LAVVLQRRDW ENPGVTQLNR LAAHPPFASW RNSEEARTDR PSQQLRSLNG  
960  
EWDAPCSGAL SAAGVVVTRS VTATLASALA PAPFAFFPSF LATFAGFPRQ ALNRGLPLGF  
1020  
RFRALRHLDR KKLDLGDGSR SGPSP  
1045

<212> Type : PRT

<211> Length : 1045

SequenceName : 2778

SequenceDescription :

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

atgaattcgg ggatgctgcc cctctttgag cccaagggcc gggctctcct ggtggacggc  
60

caccacctgg cctaccgcac cttccacgcc ctgaagggcc tcaccaccag ccggggggag  
120  
ccggtgcagg cgggtctacgg cttcgccaag agcctcctca aggccctcaa ggaggacggg  
180  
gacgcggtga tcgtggtctt tgacgccaag gccccctcct tccgccacga ggcctacggg  
240  
gggtacaagg cgggcccgggc cccacacgccg gaggactttc cccggcaact cgccctcatc  
300  
aaggagctgg tggacctcct ggggttcacg cgctcgagg tcccgggcta cgaggcggac  
360  
gacgtcctgg ccagcctggc caagaaggcg gaaaaggagg gctacgaggt cgcctcctc  
420  
accgccgaca aagaccttta ccagctcctt tccgaccgca tccacgtcct ccaccccgag  
480  
gggtacctca tcaccccggc ctggcctttg gaaaagtacg gcctgaggcc cgaccagtgg  
540  
gccgactacc gggccctgac cggggacgag tccgacaacc ttcccggggg caagggcatc  
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720  
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840  
agcctcctcc acgagttcgg ccttctggaa agccccaagg ccctggagga ggccccctgg  
900  
ccccgcgagg aaggggcctt cgtgggcttt gtgctttccc gcaaggagcc catgtggggc  
960  
gatcttctgg ccctggccgc cgccaggggc ggccgcgtgc accgggcagc agacccttg  
1020  
gcggggctaa aggacctcaa ggaggtccgg ggcctcctcg ccaaggacct cgccgtcttg  
1080  
gcctcgaggg aggggctaga cctcgtgccg ggggacgacc ccatgctcct cgctacctc  
1140  
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1200  
gaggacgccg cccaccgggc cctcctctcg gagaggctcc atcggaacct ccttaagcgc  
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1320  
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1380  
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1920  
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2517

<212> Type : DNA  
<211> Length : 2517  
SequenceName : 2779  
SequenceDescription :

Custom Codon

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Sequence Name : 2779

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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120  
DVLASLAKKA EKEGYEVRII TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEWT EDAHRALLS ERLHRNLLKR  
420  
LEGEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEEVFRLAG  
480  
HPFNLNSRDQ LERVLFDLRL LPALKKTKKT GKRSTSAAVL EALREAHPIV EKILQHRELT  
540  
KLKNTYVDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPTVTP LGQRIRRAFV  
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AEAGWALVAL DYSQIELRVL AHLSDENLI RVFQEGKDIH TQTASWMFGV PPEAVDPLMR  
660  
RAAKTVNFGV LYGMSAHLRS QELAIPEEA VAFIERFQS FPKVRAWIEK TLEEGRKRGY  
720  
VETLFGRRRY VPDNLARVKS VREAERMAF NMPVQGTAA LMKLAMVKLF PRLREMGARM  
780

LLQVANELLL EAPQARAEEV AALAKEAMEK AYPLAVPLEV EVGMGEDWLS AKGHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2780  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
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60  
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120  
DVLGTLAKKA EREGMEVRIL TGDRDFFQLL SEKVSVLLPD GTLVTPKDVQ EKYGVPPERW  
180  
VDFRALTGDR SDNIPGVAGI GEKTALRLLA EWGSVENLLK NLDRVKPSL RRKIEAHLED  
240  
LHLSLDLARI RTDLPLEVDF KALRRRTPDL EGLRAFLEEL EFGSLLHEFG LLGGEKPREE  
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APWPPPEGAF VGFLLSRKEP MWAELLALAA ASGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDDPMLL AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGEELK LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLNS RDQLERVLFD ELRLPALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
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600  
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660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIER YFQSPKVRW IEKTL EEGRK  
720  
RGYVETLFR RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKLMV KLFPRLREMG  
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840  
HH

842  
<212> Type : PRT  
<211> Length : 842  
SequenceName : 2781  
SequenceDescription :

Sequence

-----  
<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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60  
VIVVFDKAP SFRHQTIEAY KAGRPTPED FPRQLALIKE MVDLLGFTRL EVPGFEADDV  
120  
LATLAKKAEK EGYEVRILTA DRDLYQLLSE RISILHPEG YLITPEWLWEK YGLKPSQWVD  
180  
YRALAGDPSD NIPGVKGIGE KTA AKLIREW GSLENLLKHL EQVKPASVRE KILSHMEDLK  
240  
LSLELSRVHT DLLLQVDFAR RREPDRGLK AFLERLEFGS LLHEFGLLS PVAAEEAPWP  
300

PPEGAFVGYV LSRPEPMWAE LNALAAWGG RVHRAADPLA GLKDLKEVRG LLAKDPLAVLA  
360  
SREGLDLVPG DDPMLLAYLL GPSNTTPEGV ARRYGGEWTE DAAHRALLSE RLHRNLLKRL  
420  
EGEEKLLWLY HEVEKPLSRV LAHMEATGVR LDVAYLQALS LELAEIIRRL EEEVFRLAGH  
480  
PFNLNSRDQL ERVLFDELRL PALKKTKKTG KRSTSAAVLE ALREAHPIVE KILQHRELTK  
540  
LKNTYVDPLP SLVHPRTGRL HTRFNQTATA TGRSSSDPN LQNIPVRTPL GQRIRRAFVA  
600  
EAGWALVALD YSQIELRVLA HLSGDNELIR VFQEGKDIHT QTASWMFGVP PEAVDPLMRR  
660  
AAKTVNFGVL YGMSAHRSLQ ELAIPYEEAV AFIERYFQSF PKVRAWIEKT LEEGRKRGYV  
720  
ETLFGRRRYV PDLNARVKS SV REAAERMAFN MPVQGTADL MKLAMVKLFP RLREMGARML  
780  
LQVANELLE APQARAEVA ALAKEAMEKA YPLAVPLEVE VGMGEDWLSA KGHHHHHH  
838.

<212> Type : PRT  
<211> Length : 838  
SequenceName : 2782  
SequenceDescription :

#### Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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120  
ADDVLATLAK KAEKEGYEVR ILTADRDLQ LVSDRVAVLH PEGHLITPEW LWEKYGLRPE  
180  
QWVDFRALVG DPSDNLPGVK GIGECTALKL LKEWGSLENL LKNLDRVKPE NVREKIKAHL  
240  
EDRLSLELS RVRTDPLEV DLAQGREPDR EGLRAFLERL EFGSLLHEFG LLEAPAPLEE  
300  
APWPPPEGAF VGFVLSRPEP MWAEKALAA CRGGRVHRAA DPLAGLKDLK EVRGLLAKDL  
360  
AVLASREGLD LVPGDPMML AYLLGPSNTT PEGVARRYGG EWTEDAAHRA LLSERLHRNL  
420  
LKRLEGEELK LWLYHEVEKP LSRVLAHMEA TGVRLDVAYL QALSLELAEE IRRLEEEVFR  
480  
LAGHPFNLNS RDQLERVLFD ELRLPALKKT KKTGKRSTSA AVLEALREAH PIVEKILQHR  
540  
ELTKLKNTYV DPLPSLVHPR TGR LHTRFNQ TATATGRLSS SDPNLQNIPV RTPLGQRIRR  
600  
AFVAEAGWAL VALDYSQIEL RVLAHLSGDE NLIRVFQEGK DIHTQTASWM FGVPPPEAVDP  
660  
LMRRAAKTVN FGVLYGMSAH RLSQELAIPY EEAVAFIERY FQSFPKVRAW IEKTLEEGRK  
720  
RGYVETLFG RRYVPDLNAR VKSVREAAER MAFNMPVQGT AADLMKAMV KLFPRLEMG  
780  
ARMLLQVANE LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
840  
HH  
842

<212> Type : PRT  
<211> Length : 842  
SequenceName : 2783



# SequenceDescription :

## Sequence

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<213> OrganismName : Artificial Sequence
<400> PreSequenceString :
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caccacctgg cctaccgcac cttccacgcc ctgaagggcc tcaccaccag ccggggggag
120
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180
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840
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900
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960
gatcttctgg ccctggccgc cgccaggggc ggccgcgtgc accgggcagc agaccccttg
1020
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1620
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KLKNTYVDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFV  
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660  
RAAKTVNFGV LYGMSAHRLS QELAIPYEEA VAFIERYFQS FPKVRAWIEK TLEEGRKRGY  
720  
VETLFGRRRY VPDLNARVKS VREAAERMAF NMPVQGTAA LMKLAMVKLF PRLREMGARM  
780  
LLQVANELLL EAPQARAEEV AALAKEAMEK AYPLAVPLEV EVGMGEDWLS AKGHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2785  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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120  
ccggtgcaga tggctacagg ctctgcccgg agcctcctca aggccttgaa ggaggacgga  
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2526  
<212> Type : DNA  
<211> Length : 2526  
SequenceName : 2786  
SequenceDescription :

# Custom Codon

Sequence Name : 2786

## Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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120  
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VDFRALTGDR SDNIPGVAGI GEKTALRLLA EWGSVENLLK NLDRVKPSL RRKIEAHLED  
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ARMLLQVANE LLEAPQARA EEVAALAKEA MEKAYPLAVP LEVEVGMGED WLSAKGHHHH  
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HH  
842

<212> Type : PRT

<211> Length : 842

SequenceName : 2787

SequenceDescription :

#### Sequence

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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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2514

```

<212> Type : DNA

<211> Length : 2514  
SequenceName : 2788  
SequenceDescription :

Custom Codon  
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Sequence Name : 2788

Sequence  
-----

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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120  
LATLAKKAEK EGYEVRIITA DRDLYQLLSE RISILHPEGY LITPEWLWEK YGLKPSQWVD  
180  
YRALAGDPSD NIPGVKGIGE KTAAKLIREW GLENLLKHL EQVKPASVRE KILSHMEDLK  
240  
LSLELSRVHT DLLLQVDFAR RREPDRGLK AFLERLEFGS LLHEFGLLES PVAAEEAPWP  
300  
PPEGAFVGYV LSRPEPMWAE LNALAAWGG RVHRAADPLA GLKDLKEVRG LLAkdLAVLA  
360  
SREGDLVPG DDPMLLAYLL GPSNTTPEGV ARRYGGEWTE DAAHRALLSE RLHRNLLKRL  
420  
EGEEKLLWLY HEVEKPLSRV LAHMEATGVR LDVAYLQALS LELAEIIRRL EEEVFRLAGH  
480  
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540  
LKNTYVDPLP SLVHPRTGRL HTRFNQTATA TGRLSSSDPN LQNIPVRTPL GQRIRRAFVA  
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EAGWALVALD YSQIELRVLA HLSGDENLIR VFQEGKDIHT QTASWMFGVP PEAVDPLMRR  
660  
AAKTVNFGVL YGMSAHRLSQ ELAIPYEEAV AFIERYFQSF PKVRAWIEKT LEEGRKRGYV  
720  
ETLFGRRRYV PDLNARVKSv REAAERMAFN MPVQGTADL MKLAMVKLFP RLREMGARML  
780  
LQVANELLE APQARAEVA ALAKEAMEKA YPLAVPLEVE VGMGEDWLSA KGHHHHHH  
838

<212> Type : PRT  
<211> Length : 838  
SequenceName : 2789  
SequenceDescription :

Sequence  
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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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2517

<212> Type : DNA  
<211> Length : 2517  
SequenceName : 2790  
SequenceDescription :

Custom Codon

Sequence Name : 2790

Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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120  
DVLASLAKKA EKEGYEVRII TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEWT EDAHRALLS ERLHRNLLKR  
420  
LEGEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEEVFRLAG  
480  
HPFNLNSRDQ LERVLFDELR LPALKKTKKT GKRSTSAAVL EALREAHPIV EKILQHRELT  
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660  
RAAKTVNFGV LYGMSAHRIS QELAIPYEEA VAFIERYFQS FPKVRAWIEK TLEEGRKRGY  
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VETLFGRRRY VPDNLNARVKS VREAAERMAF NMPVQGTAA LMKLAMVKLF PRLREMGARM  
780  
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839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2791  
SequenceDescription :

Sequence

10004839 022602

-----  
<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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1740

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2520

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<212> Type : DNA
<211> Length : 2520
      SequenceName : 2792
      SequenceDescription :

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#### Custom Codon

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Sequence Name : 2792
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#### Sequence

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<213> OrganismName : Artificial Sequence
<400> PreSequenceString :
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60
GDAVIVVFDA EAPSRHEAY GGYKAGRAPT PEDFPRQLAL IKELVDLLGF TRLEVPGYEA
120
DDVLASLAKK AEKEGYEVRI LTADKDLYQL LSDRIHVLHP EGYLITPAWL WEKYGLRPDQ
180
WADYRALTGD ESDNLPGVKG IGEKTARKLL EEWGSLEALL KNLDRLKPAI REKILAHMDD
240
LKLSWDLAKV RTDLPLEVDF AKRREPDRER LRAFLERLEF GSLLHEFGLL ESPKALEEAP
300
WPPPEGAFVG FVLSRKEPMW ADLLALAAAR GGRVHRAADP LAGLKDLKEV RGLLAKDLAV
360
LASREGLDLV PGDDPMLLAY LLGPSNTTPE GVARRYGGEW TEDAAHRALL SERLHRNLLK
420
RLEGEKLLW LYHEVEKPLS RVLAHMEATG VRLDVAYLQA LSLELAEEIR RLEEEVFRLA
480
GHPFNLNSRD QLERVLFDEL RLPALKKTKK TGKRSTSAAV LEALREAHPI VEKILQHREL
540
TKLKNTYVDP LPSLVHPTG RLHTRFNQTA TATGRLSSSD PNLQNIPVRT PLGQRIRRAF
600
VAEAGWALVA LDYSQIELRV LAHLSGDENL IRVFQEGKDI HTQTASWMFG VPPEAVDPLM

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2517

<212> Type : DNA

<211> Length : 2517

SequenceName : 2794

SequenceDescription :

Custom Codon

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Sequence Name : 2794

Sequence

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<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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60

DAVIVVFDAE APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGFT RLEVPGYEAD  
120

DVLASLAKKA EKEGYEVRII TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180

ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL

240  
 KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW  
 300  
 PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
 360  
 ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEWT EDAHRALLS ERLHRNLLKR  
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 LEGEEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEEVFRLAG  
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 HPFNLNSRDQ LERVLFDLRL LPALKKTKKT GKRSTSAAVL EALREAHPIV EKILQHREL  
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 660  
 RAAKTVNFGV LYGMSAHRLS QELAIPYEEA VAFIERYFQS FPKVRAWIEK TLEEGRKR  
 720  
 VETLFGRRRY VPDLNARVKS VREAAERMAF NMPVQGTAA LMKLAMVKLF PRLREMGAR  
 780  
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 839

<212> Type : PRT  
 <211> Length : 839  
 SequenceName : 2795  
 SequenceDescription :

#### Sequence

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 <213> OrganismName : Artificial Sequence  
 <400> PreSequenceString :  
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2517

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<212> Type : DNA

<211> Length : 2517

SequenceName : 2796

SequenceDescription :

Custom Codon

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Sequence Name : 2796

Sequence  
-----

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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120  
DVLASLAKKA EKEGYEVRII TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
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ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEWT EDAAHRALLS ERLHRNLLKR  
420  
LEGEEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEEVFRLAG  
480  
HPFNLNSRDQ LERVLFDELRL PALKKTKKT GKRSTSAAVL EALREAHPIV EKILQHRELT  
540  
KLKNTYVDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFV  
600  
AEAGWALVAL DYSQIELRVL AHLSGDENLI RVFQEGKDIH TQTASWMFGV PPEAVDPLMR  
660  
RAAKTVNFGV LYGMSAHRIS QELAIPEEA VAFIERFQFS FPKVRAWIEK TLEEGRKRGY  
720  
VETLFGRRRY VPDNLARVKS VREAAERMAF NMPVQGTAA LMKLAMVKLF PRLREMGARM  
780  
LLQVANELL L EAPQARAEEV AALAKEAMEK AYPLAVPLEV EVGMGEDWLS AKGHHHHHH  
839

<212> Type : PRT

<211> Length : 839

SequenceName : 2797

SequenceDescription :

Sequence  
-----

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

atgaattcgg ggatgctgcc cctctttgag cccaagggcc gggtcctcct ggtggacggc  
60  
caccacctgg cctaccgcac cttccacgcc ctgaagggcc tcaccaccag ccggggggag  
120  
ccgggtgcagg cgggtctacgg cttcgccaag agcctcctca aggccctcaa ggaggacggg  
180  
gacgcggtga tcgtggtctt tgacgccgag gccccctcct tccgccacga ggccctacggg  
240  
gggtacaagg cgggcccgggc cccacgccg gaggactttc cccggcaact cgccctcatc  
300  
aaggagctgg tggacctcct ggggttcacg cgctcagagg tcccgggcta cgaggcggac  
360  
gacgtcctgg ccacctggc caagaaggcg gaaaaggagg gctacgaggt ccgcctcctc  
420  
accgccgaca aagaccttta ccagctcctt tccgaccgca tccacgtcct ccaccccgag  
480



gggtagctca tcaccccggc ctggctttgg gaaaagtacg gcctgaggcc cgaccagtgg  
 540  
 gccgactacc gggccctgac cggggacgag tccgacaacc tccccggggt caagggcatc  
 600  
 ggggagaaga cggcgaggaa gcttctggag gagggggga gcctggaagc ctcctcaag  
 660  
 aacctggacc ggctgaagcc cgccatccgg gagaagatcc tggccacat ggacgatctg  
 720  
 aagctctcct gggacctggc caaggtgcgc accgacctgc ccctggagggt ggacttcgcc  
 780  
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 840  
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 900  
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 960  
 gatcttctgg ccctggccgc cgccaggggc ggccgcgtgc accgggcagc agacccttg  
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 1200  
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 1920  
 accagaccg caagctggat gttcggcgtc cccccggagg ccgtggaccc cctgatgcgc  
 1980  
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 2040  
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 2160  
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 2280  
 ctcatgaagc tcgcatgggt gaagctcttc cccgcctcc gggagatggg ggcccgcatg

2340  
ctcctccagg tcgccaacga gtcctcctg gagggccccc aagcgcgggc cgaggaggtg  
2400  
gcggcctttgg ccaaggaggc catggagaag gcctatcccc tcgccgtgcc cctggaggtg  
2460  
gaggtgggga tgggggagga ctggctttcc gccaaagggtc accaccacca ccaccac  
2517

<212> Type : DNA  
<211> Length : 2517  
SequenceName : 2798  
SequenceDescription :

Custom Codon

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Sequence Name : 2798

Sequence

-----  
<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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60  
DAVIVVFAE APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGFT RLEVPGYEAD  
120  
DVLATLAKKA EKEGYEVRIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGWT EDAHRALLS ERLHRNLLKR  
420  
LEGEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEEVFRLAG  
480  
HPFNLNSRDQ LERVLFDLRL LPALKKTKKT GKRSTSAAVL EALREAHPIV EKILQHRELT  
540  
KLKNTYVDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFV  
600  
AEAGWALVAL DYSQIELRVL AHLSGDENLI RVFQEGKDIH TQTASWMFGV PPEAVDPLMR  
660  
RAAKTVNFGV LYGMSAHRLS QELAIPEEA VAFIERYFQS FPKVRAWIEK TLEEGRGRGY  
720  
VETLFGRRRY VPDNLARVKS VREAAERMAF NMPVQGTAA LMKLAMVKLF PRLREMGARM  
780  
LLQVANELL L EAPQARAEEV AALAKEAMEK AYPLAVPLEV EVGMGEDWLS AKGHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2799  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
atgaattcgg ggatgctgcc cctctttgag cccaagggcc gggtcctcct ggtggacggc  
60

caccacctgg cctaccgcac cttccacgcc ctgaagggcc tcaccaccag ccggggggag  
 120  
 ccggtgcagg cggtctacgg cttcgccaag agcctcctca aggccctcaa ggaggacggg  
 180  
 gacgcggtga tcgtggtctt tgacgcccag gccccctcct tccgccacga ggcctacggg  
 240  
 gggtagaagg cgggccgggc cccacgcgcg gaggactttc cccggcaact cgcctcatc  
 300  
 aaggagctgg tggacctcct ggggttcacg cgcctcgagg tcccgggcta cgaggcggac  
 360  
 gacgtcctgg ccagcctggc caagaaggcg gaaaaggagg gctacgaggt ccgcatcctc  
 420  
 accgccgaca aagaccttta ccagctcctt tccgaccgca tccacgtcct ccaccccgag  
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 540  
 gccgactacc gggccctgac cggggacgag tccgacaacc tcccgggggt caagggcatc  
 600  
 ggggagaaga cggcgctcaa gcttctggag gagggggga gcctggaagc cctcctcaag  
 660  
 aacctggacc ggctgaagcc cgccatccgg gagaagatcc tggcccatat ggacgatctg  
 720  
 aagctctcct gggacctggc caaggtgcgc accgacctgc ccctggagggt ggacttcgcc  
 780  
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 840  
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 1200  
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1920  
accagaccg caagctggat gttcggcgtc ccccgaggagg ccgtggaccc cctgatgcgc  
1980  
cgggcgccca agacggtgaa cttcggcgtc ctctacggca tgtccgcca taggctctcc  
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2100  
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2280  
ctcatgaagc tcgccatggt gaagctcttc ccccgctcc gggagatggg ggcccgcagc  
2340  
ctctccagg tcgccaacga gtcctcctg gagggcccc aagcgcgggc cgaggaggtg  
2400  
gcggctttgg ccaaggaggc catggagaag gcctatcccc tcgccgtgcc cctggaggtg  
2460  
gaggtgggga tgggggagga ctggctttcc gccaaagggtc accaccacca ccaccac  
2517

<212> Type : DNA

<211> Length : 2517

SequenceName : 2800

SequenceDescription :

Custom Codon

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Sequence Name : 2800

Sequence

-----

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

MNSGMLPLFE PKGRVLLVDG HHLAYRTFHA LKGLTTSRGE PVQAVYGFAK SLLKALKEDG  
60  
DAVIVVFDAE APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGFT RLEVPGYEAD  
120  
DVLASLAKKA EKEGYEVRI L TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTALKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGILLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEWT EDAAHRALLS ERLHRNLLKR  
420  
LEGEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEEVFRLAG  
480  
HPFNLNSRDQ LERVLFDEL R LPALKKTKKT GKRSTSAAVL EALREAHPIV EKILQHRELT  
540  
KLKNTYVDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFV  
600  
AEAGWALVAL DYSQIELRVL AHLSGDENLI RVFQEGKDIH TQTASWMFGV PPEAVDPLMR  
660  
RAAKTVNFGV LYGMSAHR L S QELAIPIYEEA VAFIER YFQS FPKVRAWIEK TLEEGRKRGY  
720  
VETLFGRRRY VPD LNARVKS VREA AERMAF NMPVQGT AAD LMKLAMVKLF PRLREMGARM  
780

LLQVANELLL EAPQARAEV AALAKEAMEK AYPLAVPLEV EVGMGEDWLS AKGHHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2801  
SequenceDescription :

Sequence

-----  
<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
atgaattcgg ggatgctgcc cctctttgag cccaagggcc gggtcctcct ggtggacggc  
60  
caccacctgg cctaccgcac cttccacgcc ctgaagggcc tcaccaccag ccggggggag  
120  
ccggtgcagg cggcttacgg cttcgccaag agcctcctca aggccctcaa ggaggacggg  
180  
gacgcggtga tegtggcttt tgacgccgag gccccctcct tccgccacga ggcctacggg  
240  
gggtacaagg cgggcccggc cccacgccg gaggactttc cccggcaact cgcctcatc  
300  
aaggagctgg tggacctcct ggggttcacg cgcctcgagg tcccgggcta cgaggcggac  
360  
gacgtcctgg ccagcctggc caagaaggcg gaaaaggagg gctacgaggt ccgcctcctc  
420  
accgccgaca aagaccttta ccagctcctt tccgaccgca tccacgtcct ccaccccgag  
480  
gggtacctca tcaccccggc ctggctttgg gaaaagtacg gcctgaggcc cgaccagtgg  
540  
gccgactacc gggccctgac cggggacgag tccgacaacc ttcccggggg caagggcatc  
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900  
ccccgcggg aaggggcctt cgtgggcttt gtgctttccc gcaaggagcc catgtgggccc  
960  
gatcttctgg ccctggccgc cgccaggggc ggccgcgtgc accgggcagc agaccccttg  
1020  
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1080  
gcctcgaggg aggggctaga cctcgtgccc ggggacgacc ccatgctcct cgcctacctc  
1140  
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1200  
gaggacgccg cccaccgggc cctcctctcg gagaggctcc atcggaacct ccttaagcgc  
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1380  
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1003439 : 022502

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1500
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1920
accagaccg caagctggat gttcggcgct ccccgaggag ccgtggaccc cctgatgcgc
1980
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2400
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gaggtgggga tgggggagga ctggctttcc gccaaagggtc accaccacca ccaccac
2517

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<212> Type : DNA
<211> Length : 2517
      SequenceName : 2802
      SequenceDescription :

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Custom Codon

Sequence Name : 2802

Sequence

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-----
<213> OrganismName : Artificial Sequence
<400> PreSequenceString :
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DAVIVVFDAE APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGFT RLEVPGYEAD
120
DVLASLAKKA EKEGYEVRIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW
180
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL
240
KLSWDLAKVR TDLPLEVDFA KRREPDREGL KAFLERLEFG SLLHEFGLLE SPKALEEAPW
300
PPPEGAFFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL
360

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ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEWT EDAAHRALLS ERLHRNLLKR
420
LEGEEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEEVFRLAG
480
HPFNLNSRDQ LERVLFDLR LPALKKTKKT GKRSTSAVL EALREAHPIV EKILQHRELT
540
KLKNTYVDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPTVRTP LGQIRRAFV
600
AEAGWALVAL DYSQIELRVL AHLSGDENLI RVFQEGKDIH TQTASWMFGV PPEAVDPLMR
660
RAAKTVNFGV LYGMSAHRLS QELAIPYEEA VAFIERYFQS FPKVRAWIEK TLEEGRKRGY
720
VETLFGRRRY VPDLNARVKS VREAAERMAF NMPVQGTAD LMKLAMVKLF PRLREMGARM
780
LLQVANELL L EAPQARAEV AALAKEAMEK AYPLAVPLEV EVGMGEDWLS AKGHHHHHH
839

```

```

<212> Type : PRT
<211> Length : 839
      SequenceName : 2803
      SequenceDescription :

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# Sequence

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<213> OrganismName : Artificial Sequence
<400> PreSequenceString :
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60
caccacctgg cctaccgcac cttccacgcc ctgaagggcc tcaccaccag ccggggggag
120
ccggtgcagg cgggtctacgg cttcgccaag agcctcctca aggccctcaa ggaggacggg
180
gacgcggtga tcgtggtctt tgacgccgag gccccctcct tccgccacga ggcctacggg
240
gggtacaagg cgggccgggc cccacgccg gaggactttc cccggcaact cgccctcatc
300
aaggagctgg tggacctcct ggggttcacg cgctcagagg tcccgggcta cgaggcggac
360
gacgtcctgg ccagcctggc caagaaggcg gaaaaggagg gctacgaggt ccgcctcctc
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accgccgaca aagaccttta ccagctcctt tccgaccgca tccacgtcct ccaccccgag
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gggtacctca tcaccccggc ctggctttgg gaaaagtacg gcctgaggcc cgaccagtgg
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 2400  
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 2460  
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 2517

<212> Type : DNA

<211> Length : 2517

SequenceName : 2804

SequenceDescription :

Custom Codon

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Sequence Name : 2804

Sequence

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<213> OrganismName : Artificial Sequence  
 <400> PreSequenceString :  
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 120  
 DVLASLAKKA EKEGYEVRL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
 180  
 ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
 240  
 KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLG GEKPREEAPW  
 300  
 PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
 360  
 ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEW EDAHRALLS ERLHRNLLKR  
 420  
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 480  
 HPFNLNSRDQ LERVLFDELRL LPALKKTKKT GKRSTSAAVL EALREAHPIV EKILQHRELT  
 540  
 KLKNTYVDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFV  
 600  
 AEAGWALVAL DYSQIELRVL AHLSGDENLI RVFQEGKDIH TQTASWMFGV PPEAVDPLMR  
 660  
 RAAKTVNFGV LYGMSAHRLS QELAIPYEEA VAFIERYFQS FPKVRAWIEK TLEEGRKRGY  
 720  
 VETLFGRRRY VPDNLNARVKS VREAAERMAF NMPVQGTAA LMKLAMVKLF PRLREMGARM  
 780  
 LLQVANELL L EAPQARAEV AALAKEAMEK AYPLAVPLEV EVGMGEDWLS AKGHHHHHHH  
 839

<212> Type : PRT  
 <211> Length : 839  
 SequenceName : 2805  
 SequenceDescription :

# Sequence

<213> OrganismName : Artificial Sequence  
 <400> PreSequenceString :  
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 120  
 ccggtgcagg cggtctacgg cttcgccaag agcctcctca aggcctcaa ggaggacggg  
 180  
 gacgcggtga tcgtggtctt tgacgccgag gccccctcct tccgccacga ggcctacggg  
 240  
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 300  
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660  
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 720  
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 1980  
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 2100  
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 2160  
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 2400  
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 2460

gaggtgggga tgggggagga ctggctttcc gccaaagggtc accaccacca ccaccac  
2517

<212> Type : DNA  
<211> Length : 2517  
SequenceName : 2806  
SequenceDescription :

Custom Codon

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Sequence Name : 2806

Sequence

-----  
<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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120  
DVLASLAKKA EKEGYEVRIL TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLE EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAACRG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGWT EDAHRALLS ERLHRNLLKR  
420  
LEGEEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEVFRLAG  
480  
HPFNLNSRDQ LERVLFDELRL LPALKKTKKT GKRSTSAAVL EALREAHPIV EKILQHRELT  
540  
KLKNTYVDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPTVTP LGQRIRRAV  
600  
AEAGWALVAL DYSQIELRVL AHLSGDENLI RVFQEGKDIH TQTASWMFGV PPEAVDPLMR  
660  
RAAKTVNFGV LYGMSAHRSL QELAIPYEEA VAFIERYFQS FPKVRAWIEK TLEGRKRGY  
720  
VETLFGRRRY VPDLNARVKS VREAAERMAF NMPVQGTAA LMKLAMVKLF PRLREMGARM  
780  
LLQVANELL L EAPQARAEV AALAKEAMEK AYPLAVPLEV EVGMGEDWLS AKGHHHHHH  
839

<212> Type : PRT  
<211> Length : 839  
SequenceName : 2807  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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120  
ccggtgcagg cggctctacgg cttcgccaag agcctcctca aggccctcaa ggaggacggg  
180  
gacgcggtga tcgtggtctt tgacgccgag gccccctcct tccgccacga ggcctacggg

240  
 ggggtacaagg cgggccgggc cccacgcgcg gaggactttc cccggcaact cgccctcate  
 300  
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 360  
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2400  
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gaggtgggga tgggggagga ctggctttcc gccaaagggtc accaccacca ccaccac  
2517

<212> Type : DNA

<211> Length : 2517

SequenceName : 2808

SequenceDescription :

Custom Codon

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Sequence Name : 2808

Sequence

-----

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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60  
DAVIVVFAE APSFRHEAYG GYKAGRPTP EDFPRQLALI KELVDLLGFT RLEVPGYEAD  
120  
DVLASLAKKA EKEGYEVRII TADKDLYQLL SDRIHVLHPE GYLITPAWLW EKYGLRPDQW  
180  
ADYRALTGDE SDNLPGVKGI GEKTARKLLK EWGSLEALLK NLDRLKPAIR EKILAHMDDL  
240  
KLSWDLAKVR TDLPLEVDFA KRREPDRERL RAFLERLEFG SLLHEFGLLE SPKALEEAPW  
300  
PPPEGAFVGF VLSRKEPMWA DLLALAAARG GRVHRAADPL AGLKDLKEVR GLLAKDLAVL  
360  
ASREGLDLVP GDDPMLLAYL LGPSNTTPEG VARRYGGEWT EDAHRALLS ERLHRNLLKR  
420  
LEGEEKLLWL YHEVEKPLSR VLAHMEATGV RLDVAYLQAL SLELAEEIRR LEEEVFRLAG  
480  
HPFNLNSRDQ LERVLFDELRL LPALKKTKKT GKRSTSAAVL EALREAHPIV EKILQHRELT  
540  
KLKNTYVDPL PSLVHPRTGR LHTRFNQTAT ATGRLSSSDP NLQNIPVRTP LGQRIRRAFV  
600  
AEAGWALVAL DYSQIELRVL AHLSGDENLI RVFQEGKDIH TQTASWMFGV PPEAVDPLMR  
660  
RAAKTVNFGV LYGMSAHRIS QELAIPYEEA VAFIERFYQS FPKVRAWIEK TLEGRKRGY  
720  
VETLFGRRRY VPDNLNARVKS VREAAERMAF NMPVQGTAA DLMKLAMVKLF PRLREMGARM  
780  
LLQVANELL EAPQARAEV AALAKEAMEK AYPLAVPLEV EVGMGEDWLS AKGHHHHHH  
839

<212> Type : PRT

<211> Length : 839

SequenceName : 2809  
SequenceDescription :

Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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60  
ggccaccacc tggcctaccg caccttcttt gccctgaagg gcctcaccac cagccggggg  
120  
gagccggtgc aggcggtcta cggcttcgcc aagagcctcc tcaaggccct cagagaggac  
180  
ggggacgcgg tgatcgtggt ctttgacgcc gagggccccct ccttccgcca cgaggcctac  
240  
ggggggtaca aggcggggccg ggccccacg ccggaggact ttccccggca actcgccctc  
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 1860  
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 1980  
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 2400  
 gtggcggcct tggccaagga ggccatggag aaggcctatc ccctcgccgt gccctggag  
 2460  
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 2520

<212> Type : DNA

<211> Length : 2520

SequenceName : 2810

SequenceDescription :

Custom Codon

Sequence Name : 2810

Sequence

<213> OrganismName : Artificial Sequence

<400> PreSequenceString :

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 120  
 DDVLATLAKK AEKEGYEVRI LTADKDLYQL LSDRIHVLHP EGYLITPAWL WEKYGLRPDQ  
 180  
 WADYRALTGD ESDNLPGVKG IGEKTALKLL EEWGSLEALL KNLDRLKPAI REKILAHMDD  
 240  
 LKLSWDLAKV RTDLPLEVDF AKRREPDREG LKAFLERLEF GSSLHEFGLL GGEKPREEAP  
 300  
 WPPPEGAFVG FVLSRKEPMW ADLLALAACR GGRVHRAADP LAGLKDLEKEV RGLLAKDLAV  
 360  
 LASREGLDLV PGDDPMLLAY LLGPSNTTPE GVARRYGGEW TEDAAHRALL SERLHRNLLK  
 420  
 RLEGEKLLW LYHEVEKPLS RVLAHMEATG VRLDVAYLQA LSLELAEEIR RLEEEVFRLA  
 480  
 GHPFNLNSRD QLERVLFDEL RLPALKKTKK TGRKSTSAAV LEALREAHPI VEKILQHREL

540  
TKLKNTYVDP LPSLVHPRTG RLHTRFNQTA TATGRLSSSD PNLQNIPTVT PLGQRIRRAF  
600  
VAEAGWALVA LDYSQIELRV LAHLSGDENL IRVFQEGKDI HTQTASWMFG VPPEAVDPLM  
660  
RRAAKTVNFG VLYGMSAHLR SQELAIPYEE AVAFIERYFQ SFPKVRAWIE KTLLEGRKRG  
720  
YVETLFGRRR YVPDLNARVK SVREAAERMA FNMPVQGTAA DLMKLAMVKL FPRLREMGAR  
780  
MLLQVANELL LEAPQARAEE VAALAKEAME KAYPLAVPLE VEVGMGEDWL SAKGHHHHHH  
840

<212> Type : PRT  
<211> Length : 840  
SequenceName : 2811  
SequenceDescription :

#### Sequence

<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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120  
gagccggtgc aggcggtcta cggttcgcc aagagcctcc tcaaggccct cagagaggac  
180  
ggggacgcgg tgatcgtggt ctttgacgcc gagggccct ccttcgccca cgaggcctac  
240  
ggggggtaca aggcggggcg ggccccacg ccggaggact ttccccggca actcgccctc  
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atcaaggagc tgggtggacct cctgggggtt acgcgcctcg aggtcccggg ctacgaggcg  
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gacgacgtcc tggccaccct ggccaagaag gcggaaaagg agggctacga ggtccgcac  
420  
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480  
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720  
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780  
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1020  
ttggcggggc taaaggacct caaggaggtc cggggcctcc tcgccaagga cctcgccgtc  
1080  
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1140  
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2280
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<212> Type : DNA  
 <211> Length : 2520  
 SequenceName : 2812  
 SequenceDescription :

Custom Codon

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Sequence Name : 2812

Sequence

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<213> OrganismName : Artificial Sequence  
 <400> PreSequenceString :  
 MNSEAMLPLF EPKGRVLLVD GHHLAYRTFF ALKGLTTSRG EPVQAVYGFA KSLKALRED  
 60  
 GDAVIVVFDA EAPSRFHEAY GGYKAGRAPT PEDFPRQLAL IKELVDLLGF TRLEVPGYEA

120  
DDVLATLAKK AEKEGYEVRI LTADKDLYQL LSDRIHVLHP EGYLITPAWL WEKYGLRPDQ  
180  
WADYRALTGD ESDNLPGVKG IGEKTALKLL KEWGSLEALL KNLDRLKPAI REKILAHMDD  
240  
LKLSWDLAKV RTDLPLEVDF AKRREPDREG LKAFLERLEF GSLLHEFGLL GGEKPREEAP  
300  
WPPPEGAFVG FVLSRKEPMW ADLLALAACR GGRVHRAADP LAGLKDLEKEV RGLLAKDLAV  
360  
LASREGLDLV PGDDPMLLAY LLGPSNTTPE GVARRYGGEW TEDAAHRALL SERLHRNLLK  
420  
RLEGEKLLW LYHEVEKPLS RVLAHMEATG VRLDVAYLQA LSLELAEER RLEEEVFRLA  
480  
GHPFNLNSRD QLERVLFDEL RLPALKKTKK TGKRSTSAAV LEALREAHPI VEKILQHREL  
540  
TKLKNTYVDP LPSLVHPRTG RLHTRFNQTA TATGRLSSSD PNLQNIPVRT PLGQRIRRAF  
600  
VAEAGWALVA LDYSQIELRV LAHLSGDENL IRVFQEGKDI HTQTASWMFG VPPEAVDPLM  
660  
RRAAKTVNFG VLYGMSAHLR SQELAIPYEE AVAFIERYFQ SFPKVRWIE KTLLEGRKRG  
720  
YVETLFGRRR YVPDLNARVK SVREAAERMA FNMPVQGTAA DLMKLAMVKL FPRLEMGAR  
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<212> Type : PRT  
<211> Length : 840  
SequenceName : 2813  
SequenceDescription :

#### Sequence

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<213> OrganismName : Artificial Sequence  
<400> PreSequenceString :  
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120  
cagcctgacg gtacgccgtt aaaggactca cagggcagaa tcacctctca cttttccgga  
180  
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240  
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300  
gcagaggaga tgtggattgc ggctttgcag gcaggagata aggacgcgaa aaagtatgct  
360  
caggctgcag ggaggggttga cgagtacatt gttgactccg caaagacgct ttttaagttac  
420  
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